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**FIGURE 711**

CTCGCGCAAGCGGCGTGCGGTCCCGCGGCGCTGCAGTTGTGTCCAGCCGGTCACGGGGCGGCT**ATGG**CGGCCACG  
TTCTTCGGAGAGGTGGTGAAGGCGCCGTGCCGAGCTGGGACTGAGGACGAAGAGGAGGAGGAGGAGGGGCGGAGG  
GAGACGCCCCGAGGACAGGGAGGTGCGTCTGCAGCTGGCGCGGAAGAGGGAAGTGCGGCTCCTTCGAAGACAAACA  
AAAACATCTTTGGAAGTTTCTTTGCTAGAAAAATATCCGTGCTCCAAGTTTATAATTGCTATAGGAAATAATGCA  
GTAGCATTTCTGTCATCATTTGTTATGAATTCAGGAGTCTGGGAGGAAGTTGGTTGTGCCAACTCTGGAATGAA  
TGGTGTAGAACAACAGACACTACACATCTGTCCTCCACAGAGGCTTTTTGTGTGTTTTATCATCTAAAATCCAAT  
CCCTCGGTTTTTCTCTGTCAGTGCAGTTGCTATGTTGCAGAAGATCAACAGTATCAGTGGCTGGAAAAGGTTTTT  
GGCTCTTGTTCCAAGGAAGAACATGCAGATAACTATTCTCACATGTCGACATGTTACCGATTATAAAACCTCAGAA  
TCCACCGGCAGCCTTCCTTCTCCTTTCTGAGAGCCCTAAAAACACAGAATTTCAAAGACTCGGCGTGTTGTCCA  
TTGCTAGAACAACCGAATATAGTACACGACCTTCCTGCAGCAGTTCTAAGCTACTGTCAAGTATGGAAAATCCCA  
GCAATTCTGTACTTGTGTTATACTGATGTGATGAAATTAGACCTAATCACAGTGGAAAGCTTTTAAGCCTATACTT  
TCTACCAGAAGCTTGAAGGGTTTGGTTAAGAATATTCCCCAAAGCACTGAGATACTAAAGAAATTGATGACAACA  
AATGAGATTTCAGAGTAACATTTATACAT**TGAT**CTTAAACATTGTTTTGTAGTGTATATTACTTGTCCATTCCTTTA  
AGGGGAGCAGCCTGCACTCTTTTGTAGATTACTTTTGGGGATATATTTTGAGAATGATGAAACGGAATAAAATT  
GTAAAAAACTAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 712**

MAATFFGEVVKAPCRAGTEDEEEEEEGRRETPEDREVRQLARKREVRLLRRQTKTSLEVSLLEKYPCSKFIIAI  
GNNAVAFLLSSFVMNSGVWEEVGCAKLWNEWCRITDTHLSSTEAFVCFYHLKSNPSVFLCQCSCYVAEDQQYQWL  
EKVFGSCPRKNMQITILTCHVTDYKTSESTGSLPSPFLRALKTONFKDSACCPLEQPNIVHDLPAAVLSYCQV  
WKIPAILYLCYTDVMKLDLITVEAFKPILSTRSLKGLVKNIPQSTEILKKLMTTNEIQSNIYT

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**FIGURE 713**

ACTCAGTGTTTCGCGGGAGCCGCACCTACACCAGCCAACCCAGATCCCCGAGGTCCGACAGCGCCCCGGCCCCAGATCC  
CCACGCCTGCCAGGAGCAAGCCGAGAGCCAGCCGGCCGGCGCACTCCGACTCCGAGCAGTCTCTGTCTTCGACC  
CGAGCCCCCGGCCCTTTCCGGGACCCCTGCCCCGCGGGCAGCGCTGCCAACCTGCCGGGCC**ATG**GAGACCCCGTCC  
CAGCGGGCGGCCACCCGCAGCGGGGCGCAGGCCAGCTCCACTCCGCTGTGCCCCACCCGCATCACCCGGCTGCAG  
GAGAAGGAGGACCTGCAGGAGCTCAATGATCGCTTGGCGGTCTACATCGACCGTGTGCGCTCGCTGGAAACGGAG  
AACGCAGGGCTGCGCCTTCGCATCACCGAGTCTGAAGAGGTGGTCAGCCGCGAGGTGTCCGGCATCAAGGCCGCC  
TACGAGGCCGAGCTCGGGGAIGCCCGCAAGACCCCTTGACTCAGTAGCCAAGGAGCGCGCCCGCTGCAGCTGGAG  
CTGAGCAAAGTGCGTGAGGAGTTTAAGGAGCTGAAAGCGCGCAATACCAAGAAGGAGGGTGACCTGATAGCTGCT  
CAGGCTCGGCTGAAGGACCTGGAGGCTCTGCTGAACTCCAAGGAGGCCGCACTGAGCACTGCTCTCAGTGAGAAG  
CGCACGCTGGAGGGCGAGCTGCATGATCTGCGGGGCCAGGTGGCCAAGCTTGAGGCAGCCCTAGGTGAGGCCAAG  
AAGCAACTTCAGGATGAGATGCTGCGGCGGGTGGATGCTGAGAACAGGCTGCAGACCATGAAGGAGGAAGTGGAC  
TTCCAGAAGAACATCTACAGTGAGGAGCTGCGTGAGACCAAGCGCCGTCATGAGACCCGACTGGTGAGATTGAC  
AATGGGAAGCAGCGTGAGTTTGAGAGCCGGCTGGCGGATGCGCTGCAGGAAGTGCGGGGCCAGCATGAGGACCAG  
GTGGAGCAGTATAAGAAGGAGCTGGAGAAGACTTATTCTGCCAAGCTGGACAATGCCAGGCAGTCTGCTGAGAGG  
AACAGCAACCTGGTGGGGGGCTGCCACGAGGAGCTGCAGCAGTCGCGCATCCGCATCGACAGCCTCTCTGCCCCAG  
CTCAGCCAGCTCCAGAAGCAGCTGGCAGCCAAGGAGGCGAAGCTTCGAGACCTGGAGGACTCACTGGCCCCGTGAG  
CGGGACACCAGCCGGCGGCTGCTGGCGGAAAAGGAGCGGGAGATGGCCGAGATGCGGGCAAGGATGCAGCAGCAG  
CTGGACGAGTACCAGGAGCTTCTGGACATCAAGCTGGCCCTGGACATGGAGATCCACGCCTACCGCAAGCTCTTG  
GAGGGCGAGGAGGAGAGGCTACGCCTGTCCCCAGCCCTACCTCGCAGCGCAGCCGTGGCCGTGCTTCCCTCTCAC  
TCATCCCAGACACAGGGTGGGGGCAGCGTCACCAAAAAGCGCAAAGTGGAGTCCACTGAGAGCCGCAGCAGCTTC  
TCACAGCACGCACGCACTAGCGGGCGCGTGGCCGTGGAGGAGGTGGATGAGGAGGGCAAGTTTGTCCGGCTGCGC  
AACAAGTCCAATGAGGACCAGTCCATGGGCAATTGGCAGATCAAGCGCCAGAATGGAGATGATCCCTTGCTGACT  
TACCGGTTCCCAACAAAGTTACCCCTGAAGGCTGGGCAGGTGGTGACGATCTGGGCTGCAGGAGCTGGGGCCACC  
CACAGCCCCCTACCGACCTGGTGTGGAAGGCACAGAACACCTGGGGCTGCGGGAACAGCCTGCGTACGGCTCTC  
ATCAACTCCACTGGGGAAGAAGTGGCCATGCGCAAGCTGGTGCCTCAGTGACTGTGGTTGAGGACGACGAGGAT  
GAGGATGGAGATGACCTGCTCCATCACCAACATGTGAGTGGTAGCCGCCGCT**TG**AGGCCGAGCCTGCACTGGGGCC  
ACCCAGCCAGGCCTGGGGGCAGCCTCTCCCCAGCCTCCCCGTGCCAAAATCTTTTCATTAAAGAATGTTTGAA  
CTTT

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**FIGURE 714**

METPSQRRATRSGAQASSTPLSPTRITRLQEKEDLQELNDRLAVYIDRVRSLTENAGLRLRITESEEVVSREVS  
GIKAAYEAE LGDARKTLD SVAKERARLQLELSKVREEFKELKARNTKKEGDLIAAQARLKDLEALLNSKEAALST  
ALSEKRTLEGELHDLRGQVAKLEAALGEAKKQLQDEMLRRVDAENRLQTMKEELDFQKNIYSEELRETKRRHETR  
LVEIDNGKQREFESRLADALQELRAQHEDQVEQYKKELEKTYSAKLDNARQSAERNNSNLVGAAHEELQQSRIRID  
SLSAQLSQLOKQLAAKEAKLRDLED SLARERDTSRRLLAEKEREMAE MRARMQQQLDEYQELLDIKLALDMEIHA  
YRKLEGEERLRLSPSPTSQRSRGRASSHSSQTQGGGSVTKKRKLESTESRSSFSQHARTSGRVAVEEVDEEGK  
FVRLRNKSNEDQSMGNWQIKRQNGDDPLLTYRFPPKFTLKAGQVVTIWAAGAGATHSPPTDLVWKAQNTWCGNS  
LRTALINSTGEEVAMRKLVRSVTVVEDEDEDGDDLHHHHVSGSRR



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**FIGURE 715**

CCAAGCCCATGAGGGCCGCGCGCCCGGCCCGGTGCTGACGAGACGGAGCTCCTGGCCCCCGAGGAGGAGCAGA  
GGATCA**ATG**CGGTTCAAGAATCGATTCCAGCGGTTTCATGAACCATCGAGCTCCAGCCAATGGCCGCTACAAGCCA  
ACTTGCTATGAACATGCTGCTAACTGTTACACACACGCATTCTCATTTGTTCCGGCCATCGTGGGCAGTGCCCTC  
CTCCATCGGCTGTCTGATGACTGCTGGGAAAAGATAACAGCATGGATTTATGGAATGGGACTCTGTGCCCTCTTC  
ATCGCTTCTACAGTATTTACATTGTATCATGGAAAAAGAGCCACTTAAGGACAGCGGAGCATTGTTTTACATG  
TGTGATAGAAATGGTTATCTATTTCTTCATTGCTGCTTCTTATGCTCCATGGTTAAATCTTCGTGAACCTGGACCC  
CTGGCATCTCATATGCGTTGGTTTATCTGGCTCATGGCAGCTGGAGGAACCATTTATGTATTTCTCTACCATGAA  
AAATATAAGGTGGTTGAACCTTTTTCTATCTCACAATGGGATTCTCTCCAGCCTTGGTGGTGACATCAATGAAC  
AACACCGATGGACTTCAGGAACCTGCCTGTGGGGGCTTAATTTATTGCTTGGGAGTTGTGTTCTTCAAGAGTGAT  
GGCATCATTCCATTGCCCCAGCCATCTGGCACCTGTTTGTGGCCACGGCAGCTGCAGTGCATTACTACGCCATT  
TGGAAATACCTTTACCGAAGTCTACGGACTTTATGCGGCATTTA**TGA**CCAATCTGTACTAATTCTCCAAACCAG  
TATTATTTCAATTATGGCACTTGGGAGTGGGGTGAGAGCTAAACATTGCACAGGGCAAAGAAAAAAATAACTGC  
ACTGACTTTTATATCTTTTGAATATAATTACTGTGAAAGTATAAAGGCTGTGTTCTGGAATTTCTGCCTCACAGC  
AAATAAATAAGGTAGTGAATTAATTATTCATTCCATTCCACTATCATGAAGGACTCTGAATAGACTTGGCCAACCT  
GATGTTTACAAAACCAGACTTTTATATTTTAAATTTTACAGATTTTACTACATGATTTTTCTAAATTACTATGTCAG  
GTTGTAAAAGTCAGTGCAATAACAAACCTTCCTTTTTAAAGAAGAAAATTGTTTCTATTACTTTCCCATTCACTAG  
GTAAAGAATCATGGACAGAACCTTACACTACTTTTTTACCATGTTTCATCTTGGCATAACATGGTTCTTTTTTAAAT  
AGAAACTTTAGTTTTTTGTAAATTTTTTAAAAAATATTTTCATTGATATGCATCTCTGCAGGTCTCTCATTTCATGTT  
GTAAATTTTTTGAGCAAGCAGTCAACATTCCACAAACGAACAAACATTATACCTCTTCTGATAGTTTTATTAAGC  
ATGGAGAAATTGCCAATTTTTTAAAACTGCAGTTTTCCAAACTTTTTCTGCCAACCTCTTACTCTGAATTCAGTGC  
TGCTTTGGGACATATACTTGACCTAGCTTGGTTTACCAGTGATGGAAAAGTATTTTGATATCATTAACTTTTTTCA  
AAAGATCCAACCTTTTTCTCTATGCCTTTGCCACATTCTCTTCAGGTCTCTTTCCACAGCGGATAAATGTTTTTT  
CTGTATTATGACAGTATTGTTGTGATGGCCATCTGCTGGAACTCCTGAAGAGCATTATGTATTACAGTGAGCAG  
TTGTATTGCCTGTTTGGTGCCCAATGGTTAAGTCATTGTCACCTTAGCTTTATATTGTCAGTTTGATATTTATTTT  
AAATTGTGGAAC TAGATGCATAAAATTCACATTTCTGCCTTTCCTTTGCATCTTCTCATATATTGTGTTTTTTTTT  
TTTTTCCTAGAAAAAATATTTAAAGCATTGTTTGACAGGTAGAACTCATGTATCTGTAGTCCATGAGTTATATC  
CTGGCTCAGTGGAGTGATATTTATGTATTATTTTACTTTTCTCTCAGTGTCTTATATTAAGATTAACATGTTGT  
TAATAGTTGCTTTGTTGATTAATCTCTCTTGTGTTGGTGTTTAATAAATGAAATAGGCTTGCCTTTAGATCGGGTG  
CTGATATTGCCTGTTTCCTAGTAATGGGCTGATCAAAATGATCAGTGGAATTCTTGGTTTGATGATAACCTTATTA  
ATTGAAATTTTTTACTGATGTGGCTTTAAAAGAGGTTTATTTTGTATATGTTTAGAACTCTCTGATTTTGATGAA  
TTATATGGGAGTGAGAAACAGAAGAAGTGGTATTTGCTGGCGAGTTAAATAGGCAAGGTACCCAGTGATAACACC  
AACCAAACCACTCCTATCTGCATGATTCTGAACATCTGGATGCCTGTTGTTTTACTGTGTATATTTTATTTTTAA  
TATATTAACCTTTGTGGATTCAATTAAGGTCTACTCAAAAGTAACACTGTCCAAACCACTAATATGTATGTAAAAA  
TTGTGCTGTATACTACAATAAAGTTGTTACTTGGATTTGTTCCAAAAA

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**FIGURE 716**

MRFKNRFQRFMNHRAPANGRYKPTCYEHAANCYTHAFLIVPAIVGSALLHRLSDDCWEKITAWIYGMGLCALFIA  
STVFHIVSWKKSHLRTAEHCFHMCDRMVIYFFIAASYAPWLNLRGLPLASHMRWFIWLMAAGGTIYVFLYHEKY  
KVVELFFYLTMGFSPALVVISMNNTDGLQELACGGLIYCLGVVFFKSDGIIPFAHAIWHLFVATAAAVHYIAWK  
YLIRSPTDFMRHL

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**FIGURE 717**

CTGTCGCCCTGCACGGTGACCCGCGTGTGCGAGGCCTTCATGGCCAGGATCCGGGTGGAGAGGCGCTGCTGACAC  
CGCCGCCACACCGCCGCCACACCGCCGCTGCCTCAGTCATGCCGAAGCACGAGTTCTCTGTGGACATGACCTGTG  
GAGGCTGTGCTGAAGCTGTCTCTCGGGTCCTCAATAAGCTTGGAGGAGTTAAGTATGACATTGACCTGCCCAACA  
AGAAGGTCTGCATTGAATCTGAGCACAGCATGGACACTCTGCTTGCAACCCTGAAGAAAACAGGAAAGACTGTTT  
CCTACCTTGGCCTTGAGTAGCAGGGGCCTGGTCCCCACAGCCCACAGGATGGACCAAAGGGGGCAGGATGCTGAT  
CCTCCCGCTGGCTTCCAGACAGACCTGGGACTTGGCAGTCATGCCGGGTGATCGTGTTCCTGCGGAGACCCTCAG  
TTGTCCTATTCTTCCTAGCTTCCCTGCAATAAATCAAGCTGCTTTTGTGG

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**FIGURE 718**

MPKHEFSVDMTCGGCAEAVSRVLNKLGGVKYDIDLPNKKVCIESEHSMDTLLATLKKTGKTVSYLGLE

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**FIGURE 719**

GTCTTGACGTGAGCTAGCTGGCATGGCGGCCTGCATTGCAGCGGGGCACTGGGCTGCAATGGGCCTAGGCCGGAG  
TTTCCAAGCCGCCAGGACTCTGCTCCCCCGCCGGCCTCTATCGCCTGCAGGGTCCACGCGGGGCCTGTCCGGCA  
GCAGAGCACTGGGCCTTCCGAGCCCCGTGCGTTCCAACCGCCGCCGAAACCGGTCATCGTGGACAAGCACCGCCC  
CGTGAACCGGAACGCAGGTTCTTGAGTCCTGAATTCATTCTCGAAGGGGAAGAACAGATCCTCTGAAATTTCA  
AATAGAAAAGAAAAGATATGTTAGAAAGGAGAAAAAGTACTCCACATTCCAGAGTTCTATGTTGGAAGTATTCTTCG  
TGTTACTACAGCTGACCCATATGCCAGTGGAAAAATCAGCCAGTTTCTGGGGATTTCATTTCAGAGATCAGGAAG  
AGGACTTGGAGCTACTTTCATCCTTAGGAATGTTATCGAAGGACAAGGTGTCGAGATTTGCTTTGAACTTTATAA  
TCCTCGGGTCCAGGAGATTCAGGTGGTCAAATTAGAGAAACGGCTGGATGATAGCTTGCTATACTTACGAGATGC  
CCTTCCTGAATATAGCACTTTTGATGTGAATATGAAGCCAGTAGTACAAGAGCCTAACCAAAAAAGTTCTGTAA  
TGAGCTGAAAGTAAAAATGAAGCCTAAGCCCTGGTCTAAACGCTGGGAACGTCCAAATTTTAATATTAAAGGAAT  
CAGATTTGATCTTTGTTTAACTGAACAGCAAATGAAAGAAGCTCAGAAGTGGAATCAGCCATGGCTTGAATTTGA  
TATGATGAGGGAATATGATACTTCAAAAAATTGAAGCTGCAATATGGAAGGAAATTGAAGCGTCGAAAAGGTCTTG  
ATTCTGAGAATGAATTTGGTTAGTTGCAGAAGATACATTGGCTCTAAGAGGATATATTTTGAGACCAATTTAATT  
TCATTTATAAGAACATAGTAATTAAGTGAACCTAAGCATTCAATTGTTTTATTAATACTTTTTTTCTAAAATAAAAC  
TTGTACACCAGTTTATTACTCTAAAAAGAGAATTACACATGCCAAATGGACCAATGTCCATTTGCTTATTGGAGG  
CAAAGCTACAATAGAAGTCAGAGCATCACCAGAATGGTCTTTAATGAGCATGGAACCTGAGCAAAGGGAATAGGT  
GGGATGAATTTTTTTTTTTAATTGTGAAACAATTCATAAGCACAAATATGATTTACAGAATAATAAACATTTCATGTA  
CCCCTATCAGGTTAAGAAATAGAACATTTATTAAATATGTAGGAATGTTAAGAAATAAAACATTTAATAAGA

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**FIGURE 720**

MGLGRSFQAARTLLPPPASIACRVHAGPVRQQSTGPSEPGAQPPPKPVIVDKHRPVEPERRFLSPEFIPRRGRT  
DPLKFQIERKDMLERRKVLHIPEFYVGSILRVTTADPYASGKISQFLGICIQRSRGLGATFILRNVIEGQGVEI  
CFELYNPRVQEIQVVKLEKRLDDSLLYLRDALPEYSTFDVNMKPVVQEPNQKVPVNELKVMMKPKPWSKRWERPN  
FNIKGIRFDLCLTEQQMKEAQKWNQPWLEFDMREYDTSKIEAAIWKEIEASKRS

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**FIGURE 721**

GTGGGAGGGAGGCTCGGCGCTCAGGAAGCATGGCACTCTGGCGGGCATAACCAGCGGGCCCTGGCCGCTCACCCGT  
GGAAAGTACAGGTCCTGACAGCTGGGTCCCTGATGGGCCTGGGTGACATTATCTCACAGCAGCTGGTGGAGAGGC  
GGGGTCTGCAGGAACACCAGAGAGGCCGGACTCTGACCATGGTGTCCCTGGGCTGTGGCTTTGTGGGCCCTGTGG  
TAGGAGGCTGGTACAAGGTTTTGGATCGGTTTCATCCCTGGCACCACCAAAGTGGATGCACTGAAGAAGATGTTGT  
TGGATCAGGGGGGCTTTGCCCCGTGTTTTCTAGGCTGCTTTCTCCCACTGGTAGGGGCACCTAATGGACTGTCAG  
CCCAGGACAAC TGGGCCAACTACAGCGGGATTATCCTGATGCCCTTATCACC AACTACTATCTATGGCCTGCTG  
TGCAGTTAGCCAACCTTCTACCTGGTCCCCCTTCATTACAGGTTGGCCGTTGTCCAATGTGTTGCTGTTATCTGGA  
ACTCCTACCTGTCCTGGAAGGCACATCGGCTCTAAGCCTGCCTCACTCCATCGTTTCCACCTTGCACTGATGCAG  
CTTGACCCTGGAACGGTCAGACAACCTCCTCAAAGTGGGCATAACCAGTTTCCACGGGGTTGGGTTGCCGGTCAGA  
GCTTAAGAGGACTAGCACCTGCAATGCCCTCTTCACTCTAAATGTACACTGACTGCTTTAGAGCCCTTGATAATA  
GTCTTATTCCCACCACATACTAGGCACTCCATAAATATCTGTTGAACCTTCATGACCTTATCAACTTTACACCCA  
TATCCAGCAAATGCCACTCATCCCCACTCTTCATAGACACATTTGTTACTCTAACCCCTGCCTAGGCTTCTTGTA  
CTCCAGCTCTTTAGAGACTCCGGGAACCCTTTATATGGTGCCTCAGTAAATATGTTATTAAATATGTAATCCGG

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**FIGURE 722**

MALWRAYQRALAAHPWKVQVLTAGSLMGLGDIISQQLVERRGLQEHQGRRTLTMVSLGCGFVGFVVGWYKVLDR  
FIPGTTKVDALKKMLLDQGGFAPCFLGCFLEPLVGALNGLSAQDNWAKLQRDYPDALITNYLWPAVQLANFYLP  
LHYRLAVVQCVAVIWNLSYLSWKAHRL



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**FIGURE 723A**

AAGTGACCCAGGGAGACAAACACTTGGAGATACTTGGGGCTGAGTTTGAGCAAGACTCCCTAACCTGTGTCTGGA  
CAAGTCTGATGTCCTGTGTGGCCCAAGAAGAACTGACCCCGTGTCTGGAGCTCCCAACCGTTATTGCATCCCTGCT  
GTGGCTCACCTGCTGCTGTCTCCAGGAGCCCTGAGAAGATTTGCCTCCTCTCCCTGCTAAGCTCCAGGTCTTG  
AGATTGAATTAGGGGCTGGAGCTCACTGCCTCCAGCAGTCAATGGGACCCAGGATAGGGCCAGCGGTGAGGTAC  
CCCAGGTACCAGACAAGGAAACCAAAGCCACAATGGGCACAGAAAACACACCTGGAGGCCAAAGCCAGCCCAGACC  
CTCAGGACGTGCGGCCAAGTGTGTTCCATAACATCAAGCTGTTTCGTTCTGTGCCACAGCCTGCTGCAGCTGGCGC  
AGCTCATGATCTCCGGCTACCTAAAGAGCTCCATCTCCACAGTGGAGAAGCGCTTCGGCCTCTCCAGCCAGACGT  
CGGGGCTGCTGGCCTCCTTCAACGAGGTGGGGAACACAGCCTTGATTGTGTTTGTGAGCTATTTTGGCAGCCGGG  
TGCACCGACCCGAATGATTGGCTATGGGGCTATCCTTGTGGCCCTGGCGGGCCTGCTCATGACTCTCCGCACT  
TCATCTCGGAGCCATAACCGCTACGACAACACCAGCCCTGAGGATATGCCACAGGACTTCAAGGCTTCCCTGTGCC  
TGCCCAACAACCTCGGCCCCAGCCTCGGCCCCCTCCAATGGCAACTGCTCAAGCTACACAGAAACCCAGCATCTGA  
GTGTGGTGGGGATCATGTTTCGTGGCACAGACCCTGCTGGGCGTGGGCGGGGTGCCATTACAGCCCTTTGGCATCT  
CCTACATCGATGACTTTGCCCCAACAGCAACTCGCCCCCTCTACCTCGGGATCCTGTTTGCAGTGACCATGATGG  
GGCCAGGCCTGGCCTTTGGGCTGGGCAGCCTCATGCTGCGCCTTTATGTGGACATTAACCAGATGCCAGAAGGTG  
GTATCAGCCTGACCATAAAGGACCCCGATGGGTGGGTGCCTGGTGGCTGGGTTTCTCATCGCTGCCGGTGCAG  
TGGCCCTGGCTGCCATCCCCTACTTCTTCTTCCCCAAGGAAATGCCCAAGGAAAAACGTGAGCTTCAGTTTCGGC  
GAAAGGTCTTAGCAGTCACAGACTCACCTGCCAGGAAGGGCAAGGACTCTCCCTCTAAGCAGAGCCCTGGGGAGT  
CCACGAAGAAGCAGGATGGCCTAGTCCAGATTGCACCAACCTGACTGTGATCCAGTTTATTAAAGTCTTCCCCA  
GGGTGCTGCTGCAGACCCTACGCCACCCCATCTTCTGCTGGTGGTCTGTGCCAGGTATGCTTGTATCCATGG  
CTGCGGGCATGGCCACCTTCTGCCCCAAGTTCCTGGAGCGCCAGTTTTTCCATCACAGCCTCCTACGCCAACCTGC  
TCATCGGCTGCCTCTCCTTCCCTTCGGTCACTCGTGGGCAICGTGGTGGGTGGCGTCTGTTCAAGCGCTCCACC  
TGGGCCCTGTGGGATGCGGTGCCCTTTGCTGCTGGGGATGCTGCTGTGCCCTCTTCTTACAGCTGCCGCTCTTCT  
TTATCGGCTGCTCCAGCCACCAGATTGCGGGCATCACACACCAGACCAGTGGCCACCCCTGGGCTGGAGCTGTCTC  
CAAGCTGCATGGAGGCCTGCTCCTGCCCATTTGACGGCTTTAACCCTGTCTGCGACCCAGCACTCGTGTGGAAT  
ACATCACACCCTGCCACGCAGGCTGCTCAAGCTGGGTGGTCCAGGATGCTCTGGACAACAGCCAGGTTTTCTACA  
CCAACCTGCAGCTGCGTGGTGGAGGGCAACCCCGTGTGGCAGGATCCTGCGACTCAACGTGCAGCCATCTGGTGG  
TGCCCTTCTGCTCCTGGTCAGCCTGGGCTCGGCCCTGGCCTGTCTCACCCACACACCCTCCTTCATGCTCATCC  
TAAGAGGAGTGAAGAAAGAAGACAAGACTTTGGCTGTGGGCATCCAGTTTATGTTTCTGAGGATTTTGGCCTGGA  
TGCCAGCCCCGTGATCCACGGCAGCGCCATCGACACCACCTGTGTGCACTGGGCCCTGAGCTGTGGGCGTCGAG  
CTGTCTGTGCTACTACAATAATGACCTGCTCCGAAACCGTTTATCGGCCTCCAGTTCTTCTTCAAAACAGGTT  
CTGTGATCTGCTTCGCCTTAGTTTTGGCTGTCTGAGGCAGCAGGACAAAGAGGCAAGGACCAAAGAGAGCAGAT  
CCAGCCCTGCCGTAGAGCAGCAATTGCTAGTGTGGGGCCAGGGAAGAAGCCAGAGGATTCCTGAGTGTGGGTGT  
TCTTGGGGCCCCACCTGGCCAAGAGTAGCAGCCACAGCAGTACCTCCTCTGAGTCTTTGCCCAAGATTGGGTGT  
CAAGAGCCCTGTGTTCCATTCTGGCTCCTCCACTAAATTGCTGTGTGACTTCAGGCAAGACATTGATCCTCTCTC  
AGCCTTTGCTTGCTAGTCTGAACCAAAGAGTTGTTTGGGCATTTGCTGTGTTGGCCATTTCTGGAGCAAGAGGGT  
CTTCTTCTCCTTCCCCCAGCCAGCCAGCTGTCTGGGGCCAGGCTTTCTGGGTGGAAAGAAGTATACCTTTCC  
CTGGGGCCCTAGGATAGCAAAGTGAGCCATAGTGGGGCCAGGCTGCCCTCCATGCTGGGGCCCCAGCCAGGTCTGC  
ACTCGCCTGGATCACCTTCTTTGAGCCTTAGCCATCTCCTGTGAGGTAGGAATGAACCTTGCCAGCCTTCAGGCTC  
GTTTACGCTATGACCATCTGTGCGGTGAGGGTACACTCAGCTCTCCTCCCCAACTCCAGCAGCCTTTAAGAAGTGT  
CCCTTTGGCGCCCCCTGGAGGCAGAGCACTGAGCTGGACCCTGGGTAGACTCCCACAGGGAGGACGGAGCTGGCC  
TCAGGAGTGGGACACCCAGACTTTGGCAGGGCCTTCAAGAGGCCTGTGTGGGGGGCCCCAGGAATCCTTAGCTGAAG  
CGGGGAGACTCACTCTCCATCTCAGGAAATTTAGCCCTTGCCCTCAGGGAGCCACGGTTGAGGGTGAGGCCCAA  
CACCTGCCTTAGGGCCCTGGGTGGGCAAGTCTGGGCCCTGGGGTAGGGAGGGAGACTCAGGCCCCACACTTGGGTA  
TTTTCTAATTTAGACAAACACACACTCAGCGCGCACTCACTGATTCTACACATTGCCAAGATTTACACATGT  
GACCAGGGGCCACCAAAGTCCCTGTGACCTTTGTGACTAGGATCCTAATTTCTCTATTTTCTCCTGGGTGCCTGG  
GTCTGTGTACCTGGGGCAGTGTGGATAATGTTTAGTTCTGTGACACTGTTTTTTGGGGGTGGCACCTGGTTCTC  
CGATGCCTGGGCTGGTGTGAGGCCAGGACTGTAGTGTGGGAGCAGTAAAGCTCAGCTCTGTGTAATGAGTGAT  
GCTATGGCTTGCTCGTGTCTTATGATCCAATCCTTTTCTACATCAGCCCTTGTTTTGTTTTATGGCTAGTCTTAT

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**FIGURE 723B**

CTGGCCTGGTTATTTTCCTTGCGGGGAGGAGAGGGTTTGCTAATCTGCTCCCAGCCCAACCTATTACCACCCACC  
TCGCTGGGACCTACTGCTCGGGAGGCAGCAGACAGGGAGCCACCAGCAGTGGCTTCCTGGCCCTGTGCTGGGGGT  
GGGGGGAAGCTGGGGGCACATGTGGCCCTTGCCTTCTGAGCAGCTCCCAGTGCCAGGGCTTTGAGACTTTCCAC  
ATGATAAAAGAAAAGGGAGGTACAGAAGTTCCAATTCCTTTTTATTTTGCTGGTTGGTATCTGTAAATGTTTAA  
TAAATATCTGAGCATGTATCTATCAACGCCAAGAATTTCAAAGTCTCCTTCAACAATATGAGGCTTTTAGGATGT  
TTATATTCCTTCATCCCTCTTGTTTCCCAGGTTTTGCAGGGAAAAAAAGTCTGGAATTATAGATACAGCTTATT  
TTAAATTTGTTCTTGCA

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**FIGURE 724**

MGPRIGPAGEVPQVPDKETKATMGTEENTPGGKASDPDQDVRPSVFHNIKLFVLCHSLLQLAQLMISGYLKSSIST  
VEKRFGGLSSQTSGLLASFNEVGNTALIVFSYFGSRVHRPRMIGYGAILVALAGLLMTLPHFISEPYRYDNTSPE  
DMPQDFKASLCLPTTSAPASAPSNNGNCSSYTETQHLSVVGIMFVAQTLLGVGGVPIQPFGISYIDDFAHNSNSPL  
YLGILFAVTMMGPGLAFGLGSLMLRLYVDINQMPEGGISLTIKDPRWVGAWWLGFLLAAGAVALLAIPYFFFPKE  
MPKEKRELQFRRKVLAVTDSPARKGKDSPSKQSPGESTKKQDGLVQIAPNLTVIQFIKVFPRVLLQTLRHPIFLL  
VVLSQVCLSSMAAGMATFLPKFLERQFSITASYANLLIGCLSFPSVIVGIVVGGVLVKRLHLGPVGGALCLLGM  
LLCLFFSLPLFFIGCSSHQIAGITHQTSAPGLELSPSCMEACSCPLDGFNPVCDPSTRVEYITPCHAGCSSWVV  
QDALDNSQVFYTNCSVVEGNPVLGSCDSTCSHLVVPFLLLVLGSLALACLTHTPSFMLILRGVKKEDKTLAVG  
IQFMFLRILAWMPSPVIHGSADITTCVHWALSCGRRAVCRYNNDDLNRNFIGLQFFFKTGSVICFALVLAVLRQ  
QDKEARTKESRSPAVEQQLLVSGPGKKPEDSRV

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**FIGURE 725A**

GTAATTGCGAGCGAGAGTGAGTGGGGCCGGGACCCGAGAGCCGAGCCGACCCTTCTCTCCCGGGCTGCGGCAGG  
GCAGGGCGGGGAGCTCCGCGCACCAACAGAGCCGGTTCTCAGGGCGCTTTGCTCCTTGTTTTTCCCGGGTTCTG  
TTTTCTCCCTTCTCCGGAAGGCTTGTCAGGGGTAGGAGAAAAGAGACGCAAACACAAAAGTGAAAAACAGTTAA  
TGACCAGCCACGGCGTCCCTGCTGTGAGCTCTGGCCGCTGCCTTCCAGGGCTCCCGAGCCACACGCTGGGGGTGC  
TGGCTGAGGGAACATGGCTTGTTGGCCTCAGCTGAGGTTGCTGCTGTGGAAGAACCTCACTTTTCAGAAGAAGACA  
AACATGTGAGCTGCTGCTGGAAGTGGCCTGGCCTCTATTTATCTTCTGATCCTGATCTCTGTTTCGGCTGAGCTA  
CCCACCTATGAACAACATGAATGCCATTTTCCAAATAAAAGCCATGCCCCCTCTGCAGGAACACTTCCTTGGGTTCA  
GGGGATTATCTGTAATGCCAACAACCCCTGTTTCCGTTACCCGACTCCTGGGGAGGCTCCCGGAGTTGTTGGAAA  
CTTTAACAAATCCATTGTGGCTCGCCTGTTCTCAGATGCTCGGAGGCTTCTTTTATACAGCCAGAAAGACACCAG  
CATGAAGGACATGCGCAAAGTTCTGAGAACATTACAGCAGATCAAGAAATCCAGCTCAAACCTGAAGCTTCAAGA  
TTTCTGGTGACAATGAAACCTTCTCTGGGTTCTGTATCACAACCTCTCTCTCCAAAGTCTACTGTGGACAA  
GATGCTGAGGGCTGATGTCACTTCTCCACAAGGTATTTTGCAAGGCTACCAGTTACATTTGACAAGTCTGTGCAA  
TGGATCAAAATCAGAAGAGATGATTCAACTTGGTGACCAAGAAAGTTTCTGAGCTTTGTGGCCTACCAAGGGAGAA  
ACTGGCTGCAGCAGAGCGAGTACTTCGTTCCAACATGGACATCCTGAAGCCAATCCTGAGAACACTAAACTCTAC  
ATCTCCCTTCCCGAGCAAGGAGCTGGCTGAAGCCACAAAAACATTGCTGCATAGTCTTGGGACTCTGGCCAGGA  
GCTGTTACAGCATGAGAAGCTGGAGTGACATGCGACAGGAGGTGATGTTTCTGACCAATGTGAACAGCTCCAGCTC  
CTCCACCCAAATCTACCAGGCTGTGTCTCGTATTGTCTGCGGGCATCCCGAGGGAGGGGGGCTGAAGATCAAGTC  
TCTCAACTGGTATGAGGACAACAATAAAAGCCCTCTTGGAGGCAATGGCACTGAGGAAGATGCTGAAACCTT  
CTATGACAACCTACAACTCCTTACTGCAATGATTTGATGAAGAATTTGGAGTCTAGTCTCTTTCCCGCATTAT  
CTGGAAGCTCTGAAGCCGCTGCTCGTTGGGAAGATCCTGTATACACCTGACACTCCAGCCACAAGGCAGGTCAT  
GGCTGAGGTGAACAAGACCTTCCAGGAAGTGGCTGTGTTCCATGATCTGGAAGGCATGTGGGAGGAACCTCAGCCC  
CAAGATCTGGACCTTCATGGAGAACAGCCAAGAAATGGACCTTGTCCGGATGCTGTTGGACAGCAGGGACAATGA  
CCACTTTTGGGAACAGCAGTTGGATGGCTTAGATTGGACAGCCCAAGACATCGTGGCGTTTTTGGCCAAGCACCC  
AGAGGATGTCCAGTCCAGTAATGGTTCTGTGTACACCTGGAGAGAAGCTTTCAACGAGACTAACCAGGCAATCCG  
GACCATATCTCGCTTCATGGAGTGTGTCAACCTGAACAAGCTAGAACCCATAGCAACAGAAGTCTGGCTCATCAA  
CAAGTCCATGGAGCTGCTGGATGAGAGGAAGTTCTGGGCTGGTATTGTGTTCACTGGAATTACTCCAGGCAGCAT  
TGAGCTGCCCCATCATGTCAAGTACAAGATCCGAATGGACATTGACAATGTGGAGAGGACAAATAAAATCAAGGA  
TGGGTACTGGGACCCTGGTCCTCGAGCTGACCCCTTTGAGGACATGCGGTACGTCTGGGGGGGCTTCGCCTACTT  
GCAGGATGTGGTGGAGCAGGCAATCATCAGGGTGTGACGGGCACCGAGAAGAAAAGTGGTGTCTATATGCAACA  
GATGCCCTATCCCTGTTACGTTGATGACATCTTTCTGCGGGTGATGAGCCGGTCAATGCCCTCTTCATGACGCT  
GGCCTGGATTACTCAGTGGCTGTGATCATCAAGGGCATCGTGTATGAGAAGGAGGCACGGCTGAAAGAGACCAT  
GCGGATCATGGGCCTGGACAACAGCATCCTCTGGTTTAGCTGGTTCATTAGTAGCCTCATTCTCTCTTGTGAG  
CGCTGGCCTGCTAGTGGTCATCTGAAGTTAGGAAACCTGCTGCCCTACAGTGATCCAGCGTGGTGTGTTGTCTT  
CCTGTCCGTGTTTGTGTGGTGACAATCCTGCAGTGCTTCCTGATTAGCACACTCTTCTCCAGAGCCAACCTGGC  
AGCAGCCTGTGGGGGCATCATCTACTTCACGCTGTACCTGCCCTACGTCCTGTGTGTGGCATGGCAGGACTACGT  
GGGCTTCACACTCAAGATCTTCGCTAGCCTGCTGTCTCCTGTGGCTTTTGGGTTTGGCTGTGAGTACTTTGCCCT  
TTTTGAGGAGCAGGGCATTGGAGTGCAGTGGGACAACCTGTTTGAGAGTCTGTGGAGGAAGATGGCTTCAATCT  
CACCCTTCGGTCTCCATGATGCTGTTTGACACCTTCCTCTATGGGGTGATGACCTGGTACATTGAGGCTGTCTT  
TCCAGGCCAGTACGGAATTCCAGGCCCTGGTATTTTCTTGCACCAAGTCCTACTGGTTTGGCGAGGAAAGTGA  
TGAGAAGAGCCACCCTGGTTCCAACCAGAAGAGAATATCAGAAATCTGCATGGAGGAGGAACCCACCCACTTGAA  
GCTGGGCGTGTCATTGAGAACCTGGTAAAGTCTACCGAGATGGGATGAAGGTGGCTGTGATGGCCTGGCACT  
GAATTTTTATGAGGGCCAGATCACCTCCTTCTGGGCCACAATGGAGCGGGGAAGACGACCACCATGTCAATCCT  
GACCGGGTTGTTCCCCCGACCTCGGGCACCGCCTACATCCTGGGAAAAGACATTGCTCTGAGATGAGCACCAT  
CCGGCAGAACTGGGGGTCTGTCCCCAGCATAACGTGCTGTTTGACATGCTGACTGTGGAAGAACACATCTGGTT  
CTATGCCCCGCTTGAAAGGGCTCTCTGAGAAGCACGTGAAGGCGGAGATGGAGCAGATGGCCCTGGATGTTGGTTT  
GCCATCAAGCAAGCTGAAAAGCAAAACAAGCCAGCTGTGAGGTGGAATGCAGAGAAAGCTATCTGTGGCCTTGGC  
CTTTGTGCGGGGATCTAAGGTTGTCACTTCTGGATGAACCCACAGCTGGTGTGGACCCTTACTCCCGCAGGGGAAT  
ATGGGAGCTGCTGCTGAAATACCGACAAGGCCGCACCATTTATCTCTCTACACACCACATGGATGAAGCGGACGT

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**FIGURE 725B**

CCTGGGGGACAGGATTGCCATCATCTCCCATGGGAAGCTGTGCTGTGTGGGCTCCTCCCTGTTTCTGAAGAACCA  
GCTGGGAACAGGCTACTACCTGACCTTGGTCAAGAAAGATGTGGAATCCTCCCTCAGTTCTTCAGAAAACAGTAG  
TAGCACTGTGTCTATACCTGAAAAAGGAGGACAGTGTTTCTCAGAGCAGTTCTGATGCTGGCCTGGGCAGCGACCA  
TGAGAGTGACACGCTGACCATCGATGTCTCTGCTATCTCCAACCTCATCAGGAAGCATGTGTCTGAAGCCCGGCT  
GGTGAAGACATAGGGCATGAGCTGACCTATGTGCTGCCATATGAAGCTGCTAAGGAGGGAGCCTTTGTGGAACCT  
CTTTTCATGAGATTGATGACCGGCTCTCAGACCTGGGCATTTCTAGTTATGGCATCTCAGAGACGACCCTGGAAGA  
AATATTCCCTCAAGGTGGCCGAAGAGAGTGGGGTGGATGCTGAGACCTCAGATGGTACCTTGCCAGCAAGACGAAA  
CAGGCGGGCCTTCGGGGACAAGCAGAGCTGTCTTCGCCCCTTCACTGAAGATGATGCTGCTGATCCAAATGATTC-  
TGACATAGACCCAGAATCCAGAGAGACAGACTTGCTCAGTGGGATGGATGGCAAAGGGTCTACCAGGTGAAAGG  
CTGGAAACTTACACAGCAACAGTTTGTGGCCCTTTTGTGGAAGAGACTGCTAATTGCCAGACGGAGTCGGAAAGG  
ATTTTTTGTCTCAGATTGTCTTGCCAGCTGTGTTTGTCTGCATTGCCCTTGTGTTAGCCTGATCGTGCCACCCTT  
TGGCAAGTACCCAGCCTGGAACCTCAGCCCTGGATGTACAACGAACAGTACACATTTGTCAGCAATGATGCTCC  
TGAGGACACGGGAACCTGGAACCTTAAACGCCCTCACCAAAGACCCTGGCTTCGGGACCCGCTGTATGGAAGG  
AAACCCAATCCAGACACGCCCTGCCAGGCAGGGGAGGAAGAGTGGACCACTGCCCCAGTTCCCCAGACCATCAT  
GGACCTCTTCCAGAATGGGAACCTGGACAATGCAGAACCCTTCACCTGCATGCCAGTGTAGCAGCGACAAAATCAA  
GAAGATGCTGCCTGTGTGTCCCCAGGGGCAGGGGGCTGCCTCCTCCACAAAGAAAAACAAACACTGCAGATAT  
CCTTCAGGACCTGACAGGAAGAAACATTTCCGATTATCTGGTGAAGACGTATGTGCAGATCATAGCCAAAAGCTT  
AAAGAACAAGATCTGGGTGAATGAGTTTAGGTATGGCGGCTTTTCCCTGGGTGTCTAGTAATACTCAAGCACTTCC  
TCCGAGTCAAGAAGTTAATGATGCCATCAAACAAATGAAGAAACACCTAAAGCTGGCCAAGGACAGTTCTGCAGA  
TCGATTTCTCAACAGCTTGGGAAGATTTATGACAGGACTGGACACCAAAAATAATGTCAAGGTGTGGTTCAATAA  
CAAGGGCTGGCATGCAATCAGCTCTTTCCTGAATGTCTCAACAATGCCATTCTCCGGGCCAACCTGCAAAAGGG  
AGAGAACCCTAGCCATTATGGAATTACTGCTTTCAATCATCCCTGAATCTCACCAAGCAGCAGCTCTCAGAGGT  
GGCTCTGATGACCACATCAGTGGATGTCTTGTGTCCATCTGTGTCTCTTTGCAATGTCTTTCGTCCCAGCCAG  
CTTTGTCTGATTTCCTGATCCAGGAGCGGGTCAGCAAAGCAAACACCTGCAGTTTCATCAGTGGAGTGAAGCCTGT  
CATCTACTGGCTCTCTAATTTTGTCTGGGATATGTGCAATTACGTTGTCCCTGCCACACTGGTCATTATCATCTT  
CATCTGCTTCCAGCAGAAGTCCTATGTGTCTCCACCAATCTGCCTGTGTCTAGCCCTTCTACTTTTGTCTGTATGG  
GTGGTCAATCACACCTCTCATGTACCCAGCCTCCTTTGTGTTCAAGATCCCCAGCACAGCCTATGTGGTGCTCAC  
CAGCGTGAACCTCTTCATTGGCATTAAATGGCAGCGTGGCCACCTTTGTGTCTGGAGCTGTTACCGACAATAAGCT  
GAATAATATCAATGATATCCTGAAGTCCGTGTTCTTGATCTTCCCACATTTTTCCTGGGACGAGGGCTCATCGA  
CATGGTGAAAAACCAGGCAATGGCTGATGCCCTGGAAAGGTTTGGGGAGAATCGCTTTGTGTCAACATTATCTTG  
GGACTTGGTGGGACGAAACCTCTTCGCCATGGCCGTGGAAGGGGTGGTGTCTTCTCCTCATTACTGTTCTGATCCA  
GTACAGATTCTTCATCAGGCCCAGACCTGTAATGCAAAGCTATCTCCTCTGAATGATGAAGATGAAGATGTGAG  
GCGGGAAAAGACAGAGAATTCTTGATGGTGGAGGCCAGAATGACATCTTAGAAATCAAGGAGTTGACGAAGATATA  
TAGAAGGAAGCGGAAGCCTGCTGTTGACAGGATTGCGTGGGCATTCTCCTGGTGAGTGCTTTGGGCTCCTGGG  
AGTTAATGGGGCTGGAATAATCATCAACTTTCAAGATGTTAACAGGAGATACCACTGTTACCAGAGGAGATGCTTT  
CCTTAACAAAAATAGTATCTTATCAAACATCCATGAAGTACATCAGAACATGGGCTACTGCCCTCAGTTTGATGC  
CATCACAGAGCTGTTGACTGGGAGAGAACACGTGGAGTTCTTTGCCCTTTTGAGAGGAGTCCCAGAGAAAGAAGT  
TGGCAAGGTTGGTGAGTGGGCGATTTCGAAAACCTGGGCCTCGTGAAGTATGGAGAAAAATATGCTGGTAACTATAG  
TGGAGGCAACAAACGCAAGCTCTCTACAGCCATGGCTTTGATCGGCGGGCCTCCTGTGGTGTCTTGGATGAACC  
CACCACAGGCATGGATCCCAAAGCCCGGCGGTTCTTGTGGAATTGTGCCCTAAGTGTGTCAAGGAGGGGAGATC  
AGTAGTGCTTACATCTCATAGTATGGAAGAATGTGAAGCTCTTTGCACTAGGATGGCAATCATGGTCAATGGAAG  
GTTTCAAGGTGCTTGGCAGTGTCCAGCATCTAAAAAATAGGTTTGGAGATGGTTATACAATAGTTGTACGAATAGC  
AGGGTCCAACCCGGACCTGAAGCCTGTCCAGGATTTCTTTGGACTTGCATTTCTGGAAGTGTCTTAAAGAGAA  
ACACCGGAACATGCTACAATACCAGCTTCCATCTTCATTATCTTCTCTGGCCAGGATATTCAGCATCCTCTCCCA  
GAGCAAAAAGCGACTCCACATAGAAGACTACTCTGTTTCTCAGACAACACTTGACCAAGTATTTGTGAACCTTGC  
CAAGGACCAAAGTGATGATGACCACTTAAAGACCTCTCATTACACAAAACAGACAGTAGTGACGTTGCAGT  
TCTCACATCTTTTCTACAGGATGAGAAAGTGAAAGAAAGCTATGTATGAAGAATCCTGTTTCATACGGGGTGGCTG  
AAAGTAAAGAGGAACTAGACTTTCTTTGCACCATGTGAAGTGTGTGGAGAAAAGAGCCAGAAGTTGATGTGGG

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**FIGURE 725C**

AAGAAGTAACTGGATACTGTACTGATACTATTCAATGCAATGCAATTCAATGCAATGAAAACAAAATTCCATTA  
CAGGGGCAGTGCCTTTGTAGCCTATGTCTTGTATGGCTCTCAAGTGAAAGACTTGAATTTAGTTTTTTTACCTATA  
CCTATGTGAAACTCTATTATGGAACCCAATGGACATATGGGTTTGAAGTACACTTTTTTTTTTTTTTTTGTTC  
TGTGTATTCTCATTGGGGTTGCAACAATAATTCATCAAGTAATCATGGCCAGCGATTATTGATCAAAATCAAAAG  
GTAATGCACATCCTCATTCACTAAGCCATGCCATGCCAGGAGACTGGTTTTCCCGGTGACACATCCATTGCTGGC  
AATGAGTGTGCCAGAGTTATTAGTGCCAAAGTTTTTCAGAAAGTTTGAAGCACCATGGTGTGTCTGCTCACTTTT  
GTGAAAGCTGCTCTGCTCAGAGTCTATCAACATTGAATATCAGTTGACAGAATGGTGCCATGCGTGGCTAACATC  
CTGCTTTGATTCCCTCTGATAAGCTGTTCTGGTGGCAGTAACATGCAACAAAAATGTGGGTGTCTCCAGGCACGG  
GAACTTGGTTCCATTGTTATATTGTCTATGCTTCGAGCCATGGGTCTACAGGGTCTATCCTTATGAGACTCTTA  
AATATACTTAGATCCTGGTAAGAGGCAAAGAATCAACAGCCAAACTGCTGGGGCTGCAAGCTGCTGAAGCCAGGG  
CATGGGATTAAAGAGATTGTGCGTTCAAACCTAGGGAAGCCTGTGCCCATTTGTCCTGACTGTCTGCTAACATGG  
TACACTGCATCTCAAGATGTTTATCTGACACAAGTGTATTATTTCTGGCTTTTTGAATTAATCTAGAAAATGAAA  
AGATGGAGTTGTATTTTGACAAAAATGTTTGTACTTTTTAATGTTATTTTGAATTTTAAGTCTATCAGTGA  
CTGAATCCTTAGAATGGCCTCTTTGTAGAACCCTGTGGTATAGAGGAGTATGGCCACTGCCCCACTATTTTTATT  
TTCTTATGTAAGTTTGCATATCAGTCATGACTAGTGCCTAGAAAGCAATGTGATGGTCAGGATCTCATGACATTA  
TATTTGAGTTTCTTTAGATCATTAGGATACTCTTAATCTCACTTCATCAATCAAATATTTTTGAGTGTATGC  
TGTAAGTGAAGAGTATGTACGTACGTATAAGACTAGAGAGATATTAAGTCTCAGTACACTTCCGTGCCATGTT  
ATTCAGCTCACTGGTTTACAAATATAGGTTGTCTTGTGGTTGTAGGAGCCCACTGTAACAATACTGGGCAGCCTT  
TTTTTTTTTTTTTTAATTGCAACAATGCAAAAGCCAAGAAAGTATAAGGGTCACAAGTCTAAACAATGAATTCT  
TCAACAGGGAAAACAGCTAGCTTGAAAACCTGTGAAAAACACAACCTTGTGTTTATGGCATTAGTACCTTCAA  
TAATTGGCTTTGCAGATATTGGATACCCCATTAATCTGACAGTCTCAAATTTTTTCTCTCTCAATCACTAGTC  
AAGAAAAATATAAAAAACAACAAATACTTCCATATGGAGCATTTTTTCAGAGTTTTCTAACCCAGTCTTATTTTTCT  
AGTCAGTAAACATTTGTAAAAATACTGTTTCACTAATACTTACTGTTAACTGTCTTGAGAGAAAAAGAAAAATATG  
AGAGAACTATTGTTTGGGGAAGTTCAAGTGATCTTTCAATATCATTACTAACTTCTTCCACTTTTTCCAGAATTT  
GAATATTAACGCTAAAGGTGTAAGACTTCAGATTTCAAATTAATCTTTCTATATTTTTTAAATTTACAGAATATT  
ATATAACCCACTGCTGAAAAAGAAAAAAATGATTGTTTTAGAAAGTTAAAGTCAATATTGATTTTAAATATAAGTA  
ATGAAGGCATATTTCCAATAACTAGTGATATGGCATCGTTGCATTTTACAGTATCTTCAAAAATACAGAATTTAT  
AGAATAATTTCTCCTCATTTAATATTTTTTCAAATCAAAGTTATGGTTTCTCATTTTACTAAAAATCGTATTCTA  
ATTCTTCATTATAGTAAATCTATGAGCAACTCCTTACTTCGGTTCCCTCTGATTTCAAGGCCATATTTTAAAAAAT  
CAAAAGGCCTGTGAACATTTTTGAAGAAAACACAACATTTTAATACAGATTGAAAGGACCTCTTCTGAAGCTAG  
AAACAATCTATAGTTATACATCTTCATTAATACTGTGTTACCTTTTAAATAGTAATTTTTTACATTTTCTGTG  
TAAACCTAATTGTGGTAGAAATTTTTACCAACTCTATACTCAATCAAGCAAAATTTCTGTATATTCCCTGTGGAA  
TGTACCTATGTGAGTTTTCAGAAATTTCTCAAAATACGTGTTCAAAATTTCTGCTTTTGCATCTTTGGGACACCTC  
AGAAAACTTATTAACAACCTGTGAATATGAGAAATACAGAAGAAAATAATAAGCCCTCTATACATAAATGCCCAGC  
ACAATTCATTGTTAAAAACAACCAACCTCACACTACTGTATTTTATTATCTGTACTGAAAGCAAATGCTTTGT  
GACTATTAAATGTTGCACATCATTCACTGTATAGTAATCATTGACTAAAGCCATTTGTCTGTGTTTTCTTC  
TTGTGGTTGTATATATCAGGTAATAATTTTTCCAAAGAGCCATGTGTCTGTAATACTGAACCACTTTGATATTG  
AGACATTAATTTGTACCTTGTATTATCTACTAGTAATAATGTAATACTGTAGAAATATTGCTCTAATTTCTTTT  
CAAAATTGTTGCATCCCCCTTAGAATGTTTCTATTTCCATAAGGATTTAGGTATGCTATTATCCCTTCTTATACC  
CTAAGATGAAGCTGTTTTTGTGCTCTTTGTTTCATCATTGGCCCTCATTCCAAGCACTTTACGCTGTCTGTAATGG  
GATCTATTTTTGCACTGGAATATCTGAGAATTGCAAACTAGACAAAAGTTTCACAACAGATTTCTAAGTTAAAT  
CATTTTCATTAAAGGAAAAAAGAAAAAAATTTTGTATGTCAATAACTTTATATGAAGTATTAAATGCATATT  
TCTATGTTGTAATATAATGAGTCACAAAATAAAGCTGTGACAGTTCTGTTGGTCTACAGAAA

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**FIGURE 726**

MPSAGTLPWVQGIICNANNPCFRYPTPGEAPGVVGNFNKSIVARLFSDARRLLLYSQKDTSMKDMRKVLRTLQQI  
KKSSSNLKLQDFLVDNETFSGFLYHNLSLPKSTVDKMLRADVILHKVFLQGYQLHLTSLCNGSKSEEMIQLGDQE  
VSELCGLPREKLAAAERVLRNMDILKPIRLTLNSTSPFPSEKELAEATKILLHSLGTLAQELFSMRWSMDMRQEV  
MFLTNNVSSSSSTQIYQAVSRIVCGHPEGGGLKIKSLNWEYEDNNYKALFGGNGTEEDAETFYDNSTTPYCNDLMK  
NLESSPLSRIIWKALKPLLVGKILYTPDTPATROVMAEVNKTFOELAVFHDLEGMWEELSPKIWTFMENSQEMDL  
VRMLLDSRDNDHFWEQQLDGLDWTADIVAFIAKHPEDVQSSNGSVYTWREAFNETNQAIRTISRMECVNLNKL  
EPIATEVWLINKSMELLDERKFWAGIVFTGITPGSIELPHHVYKIRMDIDNVERTNKIKDGYWDPGPRADPFED  
MRYVWGGFAYLQDVVEQAIIRVLTGTEKKTGVYMQMPYPCYVDDIFLRVMSRSMPLFMTLAWIYSVAVIIGKIV  
YEKEARLKETMRIMGLDNSILWFSWFISSLIPLLVSAGLLVILKLGNNLLPYSDPSVVFVFLSVFAVVTILQCFL  
ISTLFSRANLAAACGGIIYFTLYLPYVLCVAWQDYVGFTLKIFASLLSPVAFGFGCEYFALFEEQGIGVQWDLNF  
ESPVEEDGFNLTTSVSMMLFDTFLYGVMTWYIEAVFPGQYGIPRPWYFPCTKSYWFGEESDEKSHPGSNQKRIS  
ICMEEPTHLKLGVSIGNLVKVYRDGMKVAVDGLALNFYEGQITSFLGHNGAGKTTTMSILTGLFPPTSGTAYIL  
GKDIRSEMSTIRQNLGVCPQHNVLFDMLTVEEHIWFYARLKGLSEKHVKAEMEOMALDVGLPSSKLKSKTSQLSG  
GMQRKLSVALAFVGGSKVVILDEPTAGVDPYSRRGIWELLLKYRQGRITILSTHHMDEADVLDGRIAIISHGKLC  
CVGSSLFLKNQLGTGYLLTLVKKDVESSLSSCRNSSSTVSYLKEDSVSQSSSDAGLGSDHESDTLTIDVSAISN  
LIRKHVSEARLVEDIGHELTYVLPYEAKEGAFVELFHEIDRLSDLGISYGISSETTLEEIFLKVAEESGVDAE  
TSDGTLPARRRRAFGDKQSCLRPFTEDDAADPNDSIDPESRETDLLSGMDGKGSYQVKGWKLTOQQFVALLWK  
RLLIARRSRKGFFAQIVLPAVFVCIALVFSLIVPPFGKYPSELEQPMYNEQYTFVSNDAPEDTGTLELLNALT  
DPGFGTRCMEGNPIPDTPCQAGEEEWTTAPVPQTIMDLFQNGNWTMQNPSPACQCSSDKIKMLPVCPPGAGGLP  
PPQRKQNTADILQDLTGRNISDYLVKTYVQIIAKSLKNKIWNNEFRYGGFSLGVSNTQALPPSQEVNDATKQMKK  
HLKLAKDSSADRFLNSLGRFMTGLDTRNNVKVWFNNKGWHAISSFLNVINNAILRANLQKGENPSHYGITAFNHP  
LNLTKQQLSEVAPMTTSVDVLVSICVIFAMSFVPASFVFLIQERVSKAKHLQFISGVKPVIIYWLSNFWDMCNY  
VVPATLVIIIFICFQQKSYVSSTNLPLVALLLLLLYGWSITPLMPASFVFKIPSTAYVVLTSVNLFIGINGSVAT  
FVLELFTDNKLNNINDILKSVFLIFPHFCLGRGLIDMVKNQAMADALERFGENRFVSPLSWDLVGRNLFAMAVEG  
VVFLLITVLIQYRFFIRPRPVNAKLSPLNDEDEDVRRERQRILDGGGQNDILEIKELTKIYRRKRKPAVDRICVG  
IPPGECFGLLGVNAGKSSSTFKMLTGDTTIVTRGDAFLNRNSILSNIHEVHQNMGYCPQFDAITELLTGREHVEFF  
ALLRGVPEKEVGKVGWAIRKLGLVKYGEKYAGNYSGGNKRKLSTAMALI

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**FIGURE 727A**

GGCCGGGACCCGCAGAGCCGAGCCGACCCTTCTCTCCCGGGCTGCGGCAGGGCAGGGCGGGGAGCTCCGCGCACC  
AACAGAGCCGGTTCTCAGGGCGCTTTGCTCCTTGTTTTTCCCGGGTTCTGTTTTCTCCCCTTCTCCGGAAGGCT  
TGTC AAGGGGTAGGAGAAAAGAGACGCAAACACAAAAGTGGAAAACAGTTAATGACCAGCCACGGGCGTCCCTGCT  
GTGAGCTCTGGCCGCTGCCTTCCAGGGCTCCCAGCCACACGCTGGGCGTGCTGGCTGAGGGAACATGGGCTTGTT  
GGCCTCAGCTGAGGTTGCTGCTGTGGAAGAACCTCAGTTTTCAGAGAAGACAAACATGTGCTGAGCTGTTACTGGAAG  
TGGCCTGGCCTCTATTTATCTTCCCTGATCCTGATCTCTGTTTCGGCTGAGCTACCCACCCTATGAACAACATGAAT  
GCCATTTTCCAAATAAAGCCATGCCCTCTGCAGGAACACTTCCTTGGGTTGAGGGGATTATCTGTAATGCCAACA  
ACCCCTGTTTCCGTTACCCGACTCCTGGGGAGGCTCCCGGAGTTGTTGGAACTTTAACAAATCCATTGTGGCTC  
GCCTGTTCTCAGATGCTCGGAGGCTTCTTTTATACAGCCAGAAAGACACCAGCATGAAGGACATGCGCAAAGTTC  
TGAGAACATTACAGCAGATCAAGAAATCCAGCTCAAACCTTGAAGCTTCAAGATTTCTGTTGGACAATGAAACCT  
TCTCTGGGTTCCCTATATCACAACCTCTCTCTCCCAAAGTCTACTGTGGACAAGATGCTGAGGGCTGATGTCATTC  
TCCACAAGGTATTTTTGCAAGGCTACCAGTTACATTTGACAAGTCTGTGCAATGGATCAAAATCAGAAGAGATGA  
TTCAACTTGGTGACCAAGAAGTTTCTGAGCTTTGTGGCCTACCAAAGGAGAACTGGCTGCAGCAGAGCGAGTAC  
TTCGTTCCAACATGGACATCCTGAAGCCAATCCTGAGAACACTAACTCTACATCTCCCTTCCCGAGCAAGGAGC  
TGGCTGAAGCCACAAAAACATTGCTGCATAGTCTTGGGACTCTGGCCCAGGAGCTGTTGAGCATGAGAAGCTGGA  
GTGACATGCGACAGGAGGTGATGTTTCTGACCAATGTGAACAGCTCCAGCTCCTCCACCCAAATCTACCAGGCTG  
TGTCTCGTATTGTCTGCGGGCATCCCGAGGGAGGGGGGCTGAAGATCAAGTCTCTCAACTGGTATGAGGACAACA  
ACTACAAAGCCCTCTTTGGAGGCAATGGCACTGAGGAAGATGCTGAAACCTTCTATGACAACCTCTACAACCTCCTT  
ACTGCAATGATTTGATGAAGAATTTGGAGTCTAGTCCTCTTTCCCGCATTATCTGGAAAAGCTCTGAAGCCGCTGC  
TCGTTGGGAAGATCCTGTATACACCTGACACTCCAGCCACAAGGCAGGTGATGGCTGAGGTGAACAAGACCTTCC  
AGGAACTGGCTGTGTTCCATGATCTGGAAGGCATGTGGGAGGAACTCAGCCCCAAGATCTGGACCTTCATGGAGA  
ACAGCCAAGAAATGGACCTTGTCCGGATGCTGTTGGACAGCAGGGACAATGACCCTTTTGGGAACAGCAGTTGG  
ATGGCTTAGATTGGACAGCCCCAAGACATCGTGGCGTTTTTGGCCAAGCACCCAGAGGATGTCCAGTCCAGTAATG  
GTTCTGTGTACACCTGGAGAGAAGCTTTCAACGAGACTAACCAGGCAATCCGGACCATACTCGCTTCATGGAGT  
GTGTCAACCTGAACAAGCTAGAACCATAGCAACAGAAGTCTGGCTCATCAACAAGTCCATGGAGCTGCTGGATG  
AGAGGAAGTTCTGGGCTGGTATTGTGTTCACTGGAATTACTCCAGGCAGCATTGAGCTGCCCCATCATGTCAAGT  
ACAAGATCCGAATGGACATTGACAATGTGGAGAGGACAAATAAAATCAAGGATGGGTACTGGGACCCTGGTCCCTC  
GAGCTGACCCCTTTGAGGACATGCGGTACGTCTGGGGGGGCTTCGCCTACTTGCAAGGATGTGGTGGAGCAGGCAA  
TCATCAGGGTGCTGACGGGCACCGAGAAGAAAACCTGGTGTCTATATGCAACAGATGCCCTATCCCTGTTACGTTG  
ATGACATCTTTCTGCGGGTGATGAGCCGGTCAATGCCCTCTTTCATGACGCTGGCCTGGATTTACTCAGTGGCTG  
TGATCATCAAGGGCATCGTGTATGAGAAGGAGGCACGGCTGAAAGAGACCATGCGGATCATGGGCTGGACAACA  
GCATACTCTGGTTTAGCTGGTTTATTAGTAGCCTCATTCCTCTTCTTGTGAGCGCTGGCCTGCTAGTGGTCACTC  
TGAAGTTAGGAAACCTGCTGCCCTACAGTGATCCCAGCGTGGTGTGTTGTCTTCTGTCCGTGTTTGCTGTGGTGA  
CAATCCTGCAGTGCTTCTGATTAGCACACTCTTCTCCAGAGCCAACCTGGCAGCAGCCTGTGGGGGCATCATCT  
ACTTCACGCTGTACCTGCCCTACGTCTGTGTGGCATGGCAGGACTACGTGGGCTTCACACTCAAGATCTTCG  
CTAGCCTGCTGTCTCCTGTGGCTTTTGGGTTTGGCTGTGAGTACTTTGCCCTTTTGGAGGAGCAGGGCATTGGAG  
TGCAGTGGGACAACCTGTTTGGAGAGTCTGTGGAGGAAGATGGCTTCAATCTCACCCTTCGATCTCCATGATGC  
TGTTTGACACCTTCTCTATGGGGTGATGACCTGGTACATTGAGGCTGTCTTTCCAGGCCAGTACGGAATTTCCA  
GGCCTGGTATTTTCTTGCACCAAGTCTACTGGTTTGGCGAGGAAAGTGATGAGAAGAGCCACCCTGGTTCCA  
ACCAGAAGAGAATGTGAGAAATCTGCATGGAGGAGGAACCCACCCACTTGAAGCTGGGCGTGTCCATTGAGAACC  
TGGTAAAGTCTACCGAGATGGGATGAAGGTGGCTGTGATGGCCTGGCACTGAATTTTTATGAGGGCCAGATCA  
CCTCCTTCTGGGCCACAATGGAGCGGGGAAGACGACCACCATGTCAATCCTGACCGGGTTGTTCCCCCGACCT  
CGGGCACCGCCTACATCCTGGGAAAAGACATTGCTCTGAGATGAGCACCATCCGGCAGAACCTGGGGGTCTGTG  
CCCAGCATAACGTGCTGTTTGACATGCTGACTGTGCAAGAACACATCTGGTTCTATGCCCGCTTGAAAGGGCTCT  
CTGAGAAGCACGTGAAGGCGGAGATGGAGCAGATGGCCCTGGATGTTGGTTTGCCATCAAGCAAGCTGAAAAGCA  
AAACAAGCCAGCTGTGAGGTGGAATGCAGAGAAAGCTATCTGTGGCCTTGGCCTTTGTGCGGGGATCTAAGGTTG  
TCATTCTGGATGAACCCACAGCTGGTGTGGACCCTTACTCCCGCAGGGGAATATGGGAGCTGCTGCTGAAATACC  
GACAAGGCCGCACCATTATTCTCTCTACACACCACATGGATGAAGCGGACGTCTGGGGGACAGGATTGCCATCA



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**FIGURE 727B**

TCTCCCATGGGAAGCTGTGCTGTGTGGGCTCCTCCCTGTTTCTGAAGAACCAGCTGGGAACAGGCTACTACCTGA  
CCTTGGTCAAGAAAGATGTGGAATCCTCCCTCAGTTCCTGCAGAAACAGTAGTAGCACTGTGTCTATACCTGAAAA  
AGGAGGACAGTGTCTCTCAGAGCAGTTCTGATGCTGGCCTGGGCAGCGACCATGAGAGTGACACGCTGACCATCG  
ATGTCTCTGCTATCTCCAACCTCATCAGGAAGCATGTGTCTGAAGCCC GGCTGGTGGAAGACATAGGGCATGAGC  
TGACCTATGTGCTGCCATATGAAGCTGCTAAGGAGGGAGCCTTTGTGGAACCTCTTCATGAGATTGATGACCGGC  
TCTCAGACCTGGGCATTTCTAGTTATGGCATCTCAGAGACGACCCTGGAAGAAATATTCCTCAAGGTGGCCGAAG  
AGAGTGGGGTGGATGCTGAGACCTCAGATGGTACCTTGCCAGCAAGACGAAACAGGCGGGCCTTCGGGGACAAGC  
AGAGCTGTCTTCGCCCCGTTCACTGAAGATGATGCTGCTGATCCAAATGATTCTGACATAGACCCAGAATCCAGAG  
AGACAGACTTGCTCAGTGGGATGGATGGCAAAGGGTCTACCAGGTGAAAGGCTGGAACTTACACAGCAACAGT  
TTGTGGCCCTTTTGTGGAAGAGACTGCTAATTGCCAGACGGAGTCGGAAAGGATTTTTTGTCTCAGATTGTCTTGC  
CAGCTGTGTTTGTCTGCATTGCCCTTGTGTTACAGCTGATCGTGCCACCCTTTGGCAAGTACCCACGCTGGAAC  
TTCAGCCCTGGATGTACAACGAACAGTACACATTTGTGAGCAATGATGCTCCTGAGGACACGGGAACCCCTGGAAC  
TCTTAAACGCCCTCACCAAAGACCTTGGCTTCGGGACCCGCTGTATGGAAGGAAACCAATCCCAGACACGCCCT  
GCCAGGCAGGGGAGGAAGAGTGGACCACTGCCCCAGTTCCTCCAGACCATCATGGACCTCTTCCAGAATGGGAAC  
GGACAATGCAGAACCCTTACCTGCATGCCAGTGTAGCAGCGACAAAATCAAGAAGATGCTGCCTGTGTGTCCCC  
CAGGGGCAGGGGGCTGCCTCCTCCACAAAGAAAACAAACACTGCAGATATCCTTCAGGACCTGACAGGAAGAA  
ACATTTTCGATTATCTGGTGAAGACGTATGTGCAGATCATAGCCAAAAGCTTAAAGAACAAGATCTGGGTGAATG  
AGTTTAGGTATGGCGGCTTTTCCCTGGGTGTCAGTAATACTCAAGCACTTCTCCGAGTCAAGAAGTTAATGATG  
CCATCAAACAATGAAGAAACACCTAAAGCTGGCCAAGGACAGTTCTGCAGATCGATTCTCAACAGCTTGGGAA  
GATTTATGACAGGACTGGACACCAGAAATAATGTCAAGGTGTGGTTCAATAACAAGGGCTGGCATGCAATCAGCT  
CTTTCCTGAATGTCTATCAACAATGCCATTCTCCGGGCCAACCTGCAAAGGGAGAGAACCCTAGCCATTATGGAA  
TTACTGCTTTCAATCATCCCTGAATCTCACCAAGCAGCAGCTCTCAGAGGTGGCTCTGATGACCACATCAGTGG  
ATGTCCTTGTGTCCATCTGTGTCTCTTTGCAATGTCCTTCGTCCCAGCCAGCTTTGTCTGATTCTCTGATCCAGG  
AGCGGGTCAGCAAAGCAAACACCTGCAGTTCATCAGTGGAGTGAAGCCTGTCTACTGGCTCTCTAATTTTG  
TCTGGGATATGTGCAATTACGTTGTCCCTGCCACACTGGTCATTATCATCTTCATCTGCTTCCAGCAGAAGTCCT  
ATGTGTCTCCACCAATCTGCCTGTGCTAGCCCTTCTACTTTTGTCTGATGGGTGGTCAATCACACCTCTCATGT  
ACCCAGCCTCCTTTGTGTTCAAGATCCCCAGCACAGCCTATGTGGTGTCTACCAGCGTGAACCTCTTCATTGGCA  
TTAATGGCAGCGTGGCCACCTTTGTGCTGGAGCTGTTACCGACAATAAGCTGAATAATATCAATGATATCCTGA  
AGTCCGTGTTCTTGATCTTCCACATTTTGCCTGGGACGAGGGCTCATCGACATGGTGAAAAACCAGGCAATGG  
CTGATGCCCTGGAAAGGTTTGGGGAGAATCGCTTTGTGTACCATTATCTTGGGACTTGGTGGGACGAAACCTCT  
TCGCCATGGCCGTGGAAGGGGTGGTGTCTCTCCTCATTACTGTTCTGATCCAGTACAGATTCTTCATCAGGCCCA  
GACCTGTAAATGCAAAGCTATCTCCTCTGAATGATGAAGATGAAGATGTGAGGCGGGAAAGACAGAGAATTCTTG  
ATGGTGGAGGCCAGAATGACATCTTAGAAATCAAGGAGTTGACGAAGATATATAGAAGGAAGCGGAAGCCTGCTG  
TTGACAGGATTTGCGTGGGCATTCTCCTGGTGAGTGCTTTGGGCTCCTGGGAGTTAATGGGGCTGGAAAATCAT  
CAACTTTCAAGATGTTAACAGGAGATACCACTGTTACCAGAGGAGATGCTTTCCTTAACAAAAATAGTATCTTAT  
CAAACATCCATGAAGTACATCAGAACATGGGCTACTGCCCTCAGTTTGATGCCATCACAGAGCTGTTGACTGGGA  
GAGAACACGTGGAGTTCTTTGCCCTTTTGAGAGGAGTCCCAGAGAAAGAAGTTGGCAAGGTTGGTGAGTGGGCGA  
TTCGGAAACTGGGCCTCGTGAAGTATGGAGAAAAATATGCTGGTAACATAGTGGAGGCAACAAACGCAAGCTCT  
CTACAGCCATGGCTTTGATCGCGGGCCTCCTGTGGTGTCTTGGATGAACCCACCACAGGCATGGATCCCAAAG  
CCCGGCGGTTCTTGTGGAATTGTGCCCTAAGTGTGTCAAGGAGGGGAGATCAGTAGTGCTTACATCTCATAGTA  
TGGAAGAATGTGAAGCTCTTGTCACTAGGATGGCAATCATGGTCAATGGAAGGTTTCAAGGTGCCTTGGCAGTGTCC  
AGCATCTAAAAAATAGGTTTGGAGATGGTTATACAATAGTTGTACGAATAGCAGGGTCCAACCCGGACCTGAAGC  
CTGTCCAGGATTTCTTTGGACTTGCATTTCTTGGAAAGTGTCTTAAAGAGAAACACCGGAACATGCTACAATACC  
AGCTTCCATCTTCATTATCTTCTCTGGCCAGGATATTCAGCATCCTCTCCAGAGCAAAAAGCGACTCCACATAG  
AAGACTACTCTGTTTCTCAGACAACACTTGACCAAGTATTTGTGAACCTTGCCAAGGACCAAAGTGATGATGACC  
ACTTAAAGACCTCTCATTACAAAAACAGACAGTAGTGGACGTTGCAGTTCTCACATCTTTTCTACAGGATG  
AGAAAGTGAAAGAAAGCTATGTATGAAGAATCCTGTTCATACGGGTGGCTGAAAGTAAAGAGGAAGTACTGTT  
CCTTTCACCATGTGAAGTGTGTGGAGAAAAGAGCCAGAAGTTGATGTGGGAAGAAGTAAACTGGATACTGTAC

TGAATACTATTCAATGCAATTGCAATTCAATGCAATGAAAAACAAATTTCCATTACAGAGGAGAGTGCCTTTGTAGCCT  
 ATGTCTTGTATGGCTCTCAAGTGAAAGACTTGAATTTAGTTTTTTACCTATACCTATGTGAAACTCTATTATGGA  
 ACCCAATGGACATATGGGTTTGAAGTACACTTTTTTTTTTTTTTTTGTTCCTGTGTATTCTCATTGGGGTTGCAA  
 CAATAATTCATCAAGTAATCATGGCCAGCGATTATTGATCAAAATCAAAAGGTAATGCACATCCTCATTCACTAA  
 GCCATGCCATGCCAGGAGACTGGTTTTCCCGGTGACACATCCATTGCTGGCAATGAGTGTGCCAGAGTTATTAGT  
 GCCAAGTTTTTTCAGAAAGTTTTGAAGCACCATGGTGTGTGCATGCTCAGTTTTTGTGAAAGCTGCTCTGCTCAGAGTC  
 TATCAACATTGAATATCAGTTGACAGAATGGTGCCATGCGTGGCTAACATCCTGCTTTGATTCCCTCTGATAAGC  
 TGTTCCTGGTGGCAGTAACATGCAACAAAAATGTGGGTGTCTCTAGGCACGGGAACTTGGTTCCATTGTTATATT  
 GTCCTATGCTTCGAGCCATGGGTCTACAGGGTCACTCTTATGAGACTCTTAAATATACTTAGATCCTGGTAAGAG  
 GCAAAGAATCAACAGCCAAACTGCTGGGGCTGCAAGCTGCTGAAGCCAGGGCATGGGATTAAAGAGATTGTGCGT  
 TCAAACCTAGGGAAGCCTGTGCCCATTTGTCTGTACTGTCTGTCTAACATGGTACACTGCATCTCAAGATGTTTAT  
 CTGACACAAGTGTATTATTTCTGGCTTTTTGAATTAATCTAGAAAATGAAAAGATGGAGTTGTATTTTGACAAAA  
 ATGTTTGTACTTTTTTAATGTTATTTTGAATTTTAAAGTTCTATCAGTGACTTCTGAATCCTTAGAATGGCCTCTTT  
 GTAGAACCTGTGGTATAGAGGAGTATGGCCACTGCCCCACTATTTTTATTTTCTTATGTAAGTTTGCATATCAG  
 TCATGACTAGTGCCTAGAAAGCAATGTGATGGTCAGGATCTCATGACATTATATTGAGTTTCTTTTCAGATCATT  
 TAGGATACTCTTAATCTCACTTCATCAATCAAATATTTTTTGAGTGTATGCTGTAGCTGAAAGAGTATGTACGTA  
 CGTATAAGACTAGAGAGATATTAAGTCTCAGTACACTTCTGTGCCATGTTATTTCAGCTCACTGGTTTACAAATA  
 TAGGTTGTCTTGTGGTTGTAGGAGCCCACTGTAACAATATTGGGCAGCCTTTTTTTTTTTTTTTTAAATTGCAACA  
 ATGCAAAAGCCAAGAAAGTATAAGGGTCACAAGTTTAAACAATGAATTCTTCAACAGGGAAAACAGCTAGCTTGA  
 AAACCTTGCTGAAAAACACAACCTTGTGTTTATGGCATTTAGTACCTTCAAATAATTGGCTTTGCAGATATTGGATA  
 CCCCATTAAATCTGACAGTCTCAAATTTTTTCATCTCTTCAATCACTAGTCAAGAAAAATATAAAAACAACAAATA  
 CTCCCATATGGAGCATTTTTTCAGAGTTTTCTAACCCAGTCTTATTTTTCTAGTCAGTAAACATTTGTAAAAATAC  
 TGTTTCACATAACTACTGTAACTGTCTTGAGAGAAAAAGAAAAATATGAGAGAACTATTGTTTGGGGAAGTTC  
 AAGTGATCTTTCAATATCATTACTAACTTCTTCCACTTTTTTCCAAAATTTGAATATTAACGCTAAAGGTGTAAGA  
 CTTCAGATTTCAAATTAATCTTTCTATATTTTTTAAATTTACAGAATATTATATAACCCACTGCTGAAAAAGAAA  
 AAAATGATTGTTTTAGAAGTTAAAGTCAATATTGATTTTTAAATATAAGTAATGAAGGCATATTTCCAATAACTAG  
 TGATATGGCATCGTTGCAATTTACAGTATCTTCAAAAATACAGAATTTATAGAATAATTTCTCCTCATTTAATAT  
 TTTTCAAAATCAAAGTTATGGTTTTCTCATTTTACTAAAATCGTATTCTAATTCTTCATTATAGTAAATCTATGA  
 GCAACTCCTTACTTCGGTTCCCTCTGATTTCAAGGCCATATTTTTAAAAAATCAAAAGGCACTGTGAACATTTTTGA  
 AGAAAACACGACATTTTAAATACAGATTGAAAGGACCTCTTCTGAAGCTAGAAACAATCTATAGTTATACATCTTC  
 ATTAATACTGTGTTACCTTTTTAAATAGTAATTTTTTACATTTTCTGTGTAAACCTAATTGTGGTAGAAATTTT  
 TACCAACTCTATACTCAATCAAGCAAAATTTCTGTATATTCCCTGTGGAATGTACCTATGTGAGTTTCAGAAATT  
 CTCAAAATACGTGTTCAAAAATTTCTGCTTTTGCATCTTTGGGACACCTCAGAAAACCTATTAAACAACCTGTGAAT  
 ATGAGAAATACAGAAGAAAATAATAAGCCCTCTATACATAAATGCCAGCACAAATTCATTGTTAAAAACAACCA  
 AACCTCACACTACTGTATTTCAATTATCTGTACTGAAAGCAAATGCTTTGTGACTATTAAATGTTGCACATCATT  
 ATTCACTGTATAGTAATCATTGACTAAAGCCATTTGCTGTGTTTTCTTCTTGTGGXTGXATATATCAGGTAAAT  
 ATTTTCCAAAGAGCCATGTGTCTGTGTAATACTGAACCCTTTGATATTGAGACATTAATTTGGACCCTTGGTATTA  
 TCTACTAGAATAATGTAATACTGXAGAAATATTGCTCTAATTCTTTCAAAATGGTGCATCCCCCTTAAAAAXGTT  
 TATTTCCATAAGGATTTAGCTTGCTTATCCCTTCTTATACCCTAAGATGAAGCTGTTTTTGTGCTCTTTGTTTCAT  
 CATTGGCCCTCATTCCAAGCACTTACGCTGTCTGTAATGGGATCTATTTTTGCACTGGAATATCTGAGAATTGC  
 AAAACTAGACAAAAGTTTCACAACAGATTTCTAAGTTAAATCATTTTCATTAAAAAGAAAAAAGAAAAAATTT  
 TGTATGTCAATAACTTTATATGAAGTATTAAATGCATATTTCTATGTTGTAATATAATGAGTCACAAAATAAAG  
 CTGTGACAGTTCTGTTAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAG  
 AAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAG

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**FIGURE 728**

MACWPQLRLLLWKNLTFRRRQTCQLLLEVAWPLFIFLILISVRLSYPPYEQHECHFPNKAMPSAGTLPWVQGIIC  
NANNPCFRYPTPGEAPGVVGNFNKSIVARLFSDARRLLYSQKDTSMKDMRKVLRTLQQIKKSSSNLKLQDFLVD  
NETFSGFLYHNLSLPKSTVDKMLRADVILHKVFLQGYQLHLTSLCNGSKSEEMIQLGDQEVSELCGLPKKLA  
ERVLRSNMDILKPILRTLNSTSPFPKELAEATKTLLHSLGTLAQELFSMRSWSDMRQEVMTNVNSSSSSTQI  
YQAVSRIVCGHPEGGLKIKSLNWEYEDNNYKALFGGNGTEEDAETFYDNSTTPYCNDLMKNLESSPLSRIWKAL  
KPLLVGKILYTPDTPATRQVMAEVNKTFOELAVFHDLEGMWHEELSPKIWTFMENSQEMDLVRMLLDSRDNDHFE  
QQLDGLDWTADQDIVAFLAKHPEDVQSSNGSVYTWREAFNETNQAI RTISRMECVNLNKLEPIATEVWLINKSME  
LLDERKFWAGIVFTGITPGSIELPHHVKYKIRMDIDNVERTNKKIDGYWDPGPRADPFEDMRYVWGGFAYLQDVV  
EQAIIRVLTGTTEKKTGVYMQMPYPCYVDDIFLRVMSRSMPLFMTLAWIYSVAVI IKGIVYEKEARLKETMRIMG  
LDNSILWFSWFISSLIPLLVSAAGLLVVLKLGNNLPYSDPSVVFVFLSVFAVVTILQCFLISTLFSRANLAAACG  
GIIYFTLYLPYVLCVAWQDYVGFTLKIFASLLSPVAFGFGCEYFALFEEQGIGVQWDLNFESFVEEDGFNLTTSI  
SMMLFDTFLYGVMTWYIEAVFPGQYGI PRPWYFPCTKSYWFGESDEKSHPGSNQKRMSEICMEEEP THLKLGS  
IQNLVKVYRDGMKVAVDGLALNFYEGQITSFLGHNGAGKTTTMSILTGLFPPTSGTAYILGKDIRSEMSTIRQNL  
GVCPQHNVLFDMLTVEEHIWFYARLKLSEKHVKAEME QMALDVGLPSSKLKSKTSQLSGGMQRKLSVALAFVGG  
SKVVILDEPTAGVDPYSRRGIWELLKYRQGRITILSTHHMDEADVLGDRIAI ISHGKLCVGVSSFLKNQLGTG  
YYLTLVKKDVESSLSSCRNSSSTVSYLKEDSVSQSSDAGLGSDESHTLTIDVSAISNLIRKHVSEARLVEDI  
GHELTIVLPYEAKEGAFVELFHEIDRLSDLGISSYGISSETTLEEIFLKVAEESGVDAETSDGTLPARNRRAF  
GDKQSCLRPFTEDDAADPNDSIDPESRETDLLSGMDGKGSYQVKGWKL TQQQFVALLWKRLLIARRSRKGFFAQ  
IVLPAVFVCI ALVFS LIVPPFGKYP SLELQPMYNEQYTFVSNDAPEDTGTLELLNALT KDPGFGTRCMEGNP IP  
DTPCQAGEEEWTTAPVPQTIMDLFQNGNWTM QNPSPACQCSSDKIKMLPVCPPGAGGLPPPQRKQNTADILQDL  
TGRNISDYLVKTYVQIIAKSLKNKIWNNEFRYGGFSLGVSNTQALPPSQEVNDAIKQMKKHLKLAKDSSADRFLN  
SLGRFMTGLDTRNNVKVWFNNKGWHAISSFLNVINNAILRANLQKGENPSHYGITAFNHPNLTKQQLSEVALMT  
TSVDVLVSICVIFAMSFVPASFVFLIQERVSKAKHLQFISGVKPIYWLSNFVWDMCNVVPATLVIIIFICFQ  
QKSYVSSTNLPVLALLLLLYGWSITPLMPASFVFKIPSTAYVVLTSVNLFIGINGSVATFVLELFTDNKLNNIN  
DILKSVFLIFPHFCLGRGLIDMVKNQAMADALERFGENRFVSPLSWDLVGRNLFAMAVEGVVFFLITVLIQYRFF  
IRPRPVNAKLSPLNDEDEDVRRERQRILDGGGQNDILEIKELTKIYRRKRKPAVDRI CVGIPPGEFCGLLGVNGA  
GKSSTFKMLTGDTTVTRGDAFLNKN SILSNIHEVHQNMGYCPQFDAITELLTGREHVEFFALLRGVPEKEVGKVG  
EWAIRKLGLVKYGEKYAGNYSGGNKRKLSTAMALIGGPPVFLDEPTTGMDPKARRFLWNCALSVVKEGRSVVLT  
SHSMEECEALCTRM AIMVNGRFRCLG SVQHLKNRFGDGYTIVVRIAGSNPDLKPVDFFGLAFPGSVLKEKHRNM  
LQYQLPSSSLARIFSILSQSKRLHIEDYSVSQTTL DQVFVNFAKDQSDDDHLKDL SLHKNQTVVDVAVLTSF  
LQDEKVKESYV

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**FIGURE 729A**

[illegible]

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**FIGURE 729B**

GTTGATCCCAAGACAATGAAAGTTTGCACTGTATGCTGGACGGCATTCTGCTTATCAATAAACCTGTTTGTTTT  
AAAAAAAA

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**FIGURE 730**

MAPVAVWAALAVGLELWAAHALPAQVAFTPYAPEPGSTCRLREYYDQTAQMCCSKCSPGQHAKVFCTKTSDTV  
DSCEDSTYTQLWNWVPECLSCGSRCSDDQVETQACTREQNRICRPGWYCALSKEGCRLCAPLRKCRPGFGVA  
RPGTETSDVVCKPCAPGTFSTTTSSDTCRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQ  
HTQPTPEPSTAPSTSFLPMGPPPAEGSTGDFALPVGLIVGTALGLLIIGVVNCVIMTQVKKKPLCLQREAKV  
PHLPADKARGTQGPEQQHLLITAPSSSSSSLESSASALDRRAPTRNQAPGVEASGAGEARASTGSSDSSPGGH  
GTQVNVTCIVNVCSSDHSSQCSSQASSTMGDTDSSPSESPKDEQVPFSKEECAFRSQLETPETLTGSTEEKPLP  
LGVPDAGMKPS

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**FIGURE 731A**

GGCGCGGGCGGCCTGGAGCCCCGGGAGCGGCGCGCGGGTCCCGGCCAGCCGGCTCTCCTGGCCTCGCGCTGCA  
CATTCTCTCCTGGCGGCGGCGCCACCTGCAGTAGCGTTTCGCCCCGAACATGCGGACACGGAGCAGCAGGAGGGAGT  
CGCGACTCCCGTTTCTATTACCCCTGGTCGCACTGCTGCCGCCCCGGAGCTCTCTGCGAAGTCTGGACGCAGAGGC  
TGCACGGCGGCGAGCGCGCCCTTGCCCCAGGACCGGGGCTTCCTCGTGGTGCAGGGCGACCCGCGCGAGCTGCGGC  
TGTGGGCGCGCGGGGATGCCAGGGGGGCGAGCCGCGCGGACGAGAAGCCGCTCCGGAGGAAACGGAGCGCTGCCC  
TGCAGCCCCGAGCCCATCAAGGTGTACGGACAGGTTAGTCTGAATGATTCCCAATCAGATGGTGGTGCAGTGGG  
CTGGAGAGAAAAGCAACGTGATCGTGGCCTTGCCCCGAGATAGCCTGGCATTGGCGAGGCCCAAGAGCAGTGATG  
TGTACGTGTCTTACGACTATGGAATAATTCAAGAAAATTTAGACAAGTTAACTTTGGCTTGGGAAATAGGA  
GTGAAGCTGTTATCGCCAGTTCTACCACAGCCCTGCGGACAACAAGCGGTACATCTTTGCAGACGCTTATGCCC  
AGTACCTCTGGATCACGTTTGACTTCTGCAACACTCTTCAAGGCTTTTCCATCCATTTGCGGCAGCTGATCTCC  
TCCTACACAGTAAGGCCTCCAACCTTCTCTTGGGCTTTGACAGGTCCACCCCAACAAGCAGCTGTGGAAGTCAG  
ATGACTTTGGCCAGACCTGGATCATGATTAGGAACATGTCAAGTCCCTTTCTTGGGGAATTGATCCCTATGACA  
AACCATAATACCATCTACATTGAACGACACGAACCTCTGGCTACTCCACTGTCTTCCGAAGTACAGATTTCTTCC  
AGTCCCCGGGAAAACAGGAAGTGATCCTTGAGGAAGTGAGAGATTTTCAGCTTCGGGACAAGTACATGTTTGCTA  
CAAAGGTGGTGCATCTCTTGGGCAGTGAACAGCAGTCTTCTGTCCAGCTCTGGGTCTCCTTTGGCCGGAAGCCCCA  
TGAGAGCAGCCCAGTTTGTCAAGACATCCTATTAATGAATATTACATCGCAGATGCCTCCGAGGACCAGGTGT  
TTGTGTGTGTACGCCACAGTAACAACCGCACCAATTTATACATCTCAGAGGCAGAGGGGCTGAAGTTCTCCCTGT  
CCTTGGAGAACGTGCTCTATTACAGCCAGGAGGGGCGGCGAGTGACACCTTGGTGAGGTATTTTGCAATGAAC  
CATTTGCTGACTTCCACCGAGTGGAAGGATTGCAAGGAGTCTACATTGCTACTCTGATTAATGGTTCTATGAATG  
AGGAGAACATGAGATCGGTCATCACCTTTGACAAAGGGGGAACTGGGAGTTTCTTCAGGCTCCAGCCTTCACGG  
GATATGGAGAGAAAATCAATTGTGAGCTTTCCAGGGCTGTTCCCTTCATCTGGCTCAGCGCCTCAGTCAGCTCC  
TCAACCTCCAGCTCCGGAGAATGCCCATCCTGTCCAAGGAGTCGGCTCCAGGCCTCATCATCGCCACTGGCTCAG  
TGGGAAAGAACTTGGCTAGCAAGACAAACGTGTACATCTCTAGCAGTGCTGGAGCCAGGTGGCGAGAGGCACTTC  
CTGGACCTCACTACTACATGAGGAGACCACGGCGGAATCATCACGGCCATTGCCAGGGCATGGAACCAACG  
AGCTAAAATACAGTACCAATGAAGGGGAGACCTGGAACCAATTCATCTTCTCTGAGAAGCCAGTGTTTGTGTATG  
GCCTCCTCACAGAACCTGGGGAGAAGAGCACTGTCTTACCATCTTTGGCTCGAACAAAGAGAATGTCCACAGCT  
GGCTGATCCTCCAGGTCAATGCCACGGATGCCTTGGGAGTTCCCTGCACAGAGAATGACTACAAGCTGTGGTCAC  
CATCTGATGAGCGGGGAATGAGTGTTTGGTGGGACACAAGACTGTTTTCAAACGGCGGACCCCCCATGCCACAT  
GCTTCAATGGAGAGGACTTTGACAGGCCGCTGGTTCGTGTCCAAGTCTCCTGCACCCGGGAGGACTATGAGTGTG  
ACTTCGGTTTCAAGATGAGTGAAGATTTGTCAATAGAGGTTTGTGTTCCAGATCCGGAATTTTCTGGAAAGTCAT  
ACTCCCTCCTGTGCCCTTGCCCTGTGGGTTCTACTTACAGGAGAACGAGAGGCTACCGGAAGATTTCTGGGGACA  
CTTGTAGCGGAGGAGATGTTGAAGCGGCACTGGAAGGAGAGCTGGTCCCCTGTCCCCTGGCAGAAGAGAACGAGT  
TCATTCTGTATGCTGTGAGGAAATCCATCTACCGCTATGACCTGGCCTCGGGAGCCACCGAGCAGTTGCCTCTCA  
CCGGGCTACGGGCAGCAGTGGCCCTGGACTTTGACTATGAGCACAACGTTTGTATTGGTCCGACCTGGCCTTGG  
ACGTCATCCAGCGCCTCTGTTTGAATGGAAGCACAGGGCAAGAGGTGATCATCAATTCTGGCCTGGAGACAGTAG  
AAGCTTTGGCTTTTGAACCCCTCAGCCAGCTGCTTTACTGGGTAGATGCAGGCTTCAAAAAGATTGAGGTAGCTA  
ATCCAGATGGCGACTTCCGACTCACAATCGTCAATTCTCTGTGCTTGATCGTCCCAGGGCTCTGGTCCCTCGTGC  
CCCAAGAGGGGGTGATGTTCTGGACAGACTGGGGAGACCTGAAGCCTGGGATTTATCGGAGCAATATGGATGGTT  
CTGCTGCCTATCACCTGGTGTCTGAGGATGTGAAGTGGCCCAATGGCATCTCTGTGGACGACCAGTGGATTTACT  
GGACGGATGCCTACCTGGAGTGCATAGAGCGGATCACGTTTCAAGTGGCCAGCAGCGCTCTGTCAATTCTGGACAACC  
TCCCGCACCCCTATGCCATTGCTGTCTTTAAGAATGAAATCTACTGGGATGACTGGTTCACAGCTCAGCATATTC  
GAGCTTCCAAATACAGTGGGTCCAGATGGAGATTCTGGCAAACCAGCTCACGGGGCTCATGGACATGAAGATTT  
TCTACAAGGGGAAGAACACTGGAAGCAATGCCTGTGTGCCAGGCCATGCAGCCTGCTGTGCCTGCCCAAGGCCA  
ACAACAGTAGAAGCTGCAGGTGTCCAGAGGATGTGTCCAGCAGTGTGCTTCCATCAGGGGACCTGATGTGTGACT  
GCCCTCAGGGCTATCAGCTCAAGAACAATACCTGTGTCAAAGAAGAGAACACCTGTCTTCGCAACCAGTATCGCT  
GCAGCAACGGGAAGTGTATCAACAGCATTGTTGGTGGTGTGACTTTGACAACGACTGTGGAGACATGAGCGATGAGA  
GAACTGCCCTACCACCATCTGTGACCTGGACACCCAGTTTCTGTTGCCAGGAGTCTGGGACTTGTATCCCACTGT  
CCTATAAATGTGACCTTGAAGATGACTGTGGAGACAACAGTGATGAAAGTCATTGTGAAATGCACCAGTGCCGGA

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**FIGURE 731B**

GTGACGAGTACAACCTGCAGTTCGGGCATGTGCATCCGCTCCTCCTGGGTATGTGACGGGGACAACGACTGCAGGG  
ACTGGTCTGATGAAGCCAACTGTACCGCCATCTATCACACCTGTGAGGCCTCCAACCTCCAGTGCCGAAACGGGC  
ACTGCATCCCCCAGCGGTGGGCGTGTGACGGGGATACGGACTGCCAGGATGGTTCCGATGAGGATCCAGTCAACT  
GTGAGAAGAAGTGCAATGGATTCCGCTGCCCAAACGGCAGTTCATCCCATCCAGCAAACATTGTGATGGTCTGC  
GTGATTGCTCTGATGGCTCCGATGAACAGCACTGCGAGCCCCCTCTGTACGCACTTCATGGACTTTGTGTGTAAGA  
ACCGCCAGCAGTGCCCTGTTCCACTCCATGGTCTGTGACGGAATCATCCAGTGCCGCGACGGGTCCGATGAGGATG  
CGGCGTTTGCAGGATGCTCCCAAGATCCTGAGTTCCACAAGGTATGTGATGAGTTCCGTTTCCAGTGTCAGAATG  
GAGTGTGCATCAGTTTGATTGGAAGTGCGACGGGATGGATGATTGCGGCGATTATTCTGATGAAGCCAACTGCG  
AAAACCCACAGAAAGCCCCAACTGCTCCCGCTACTTCCAGTTTCGGTGTGAGAATGGCCACTGCATCCCCAACA  
GATGGAAATGTGACAGGGAGAACGACTGTGGGGACTGGTCTGATGAGAAGGATTGTGGAGATTACATATTCTTC  
CCTTCTCGACTCCTGGGCCCTCCACGTGTCTGCCCAATTACTACCGCTGCAGCAGTGGGACCTGCGTGATGGACA  
CCTGGGTGTGCGACGGGTACCGAGATTGTGCAGATGGCTCTGACGAGGAAGCCTGCCCTTGCTTGCAAACGTCA  
CTGCTGCCTCCACTCCCACCAACTTGGGCGATGTGACCGATTGAGTTCGAATGCCACCAACCGAAGACGTGTA  
TTCCCAACTGGAAGCGCTGTGACGGCCACCAAGATTGCCAGGATGGCCGGGACGAGGCCAATTGCCCCACACACA  
GCACCTTGACTTGATGAGCAGGGAGTTCCAGTGCGAGGACGGGGAGGCCTGCATTGTGCTCTCGGAGCGCTGCG  
ACGGCTTCTGGACTGCTCGGACGAGAGCGATGAAAAGGCCTGCAGTGATGAGTTGACTGTGTACAAAGTACAGA  
ATCTTCAGTGGACAGCTGACTTCTCTGGGGATGTGACTTTGACCTGGATGAGGCCCAAAAAATGCCCTCTGCTT  
CTTGTTGATATAATGTCTACTACAGGGTGGTTGGAGAGAGCATATGGAAGACTCTGGAGACCCACAGCAATAAGA  
CAAACACTGTATTAAAGTCTTGAAACCAGATACCACGTATCAGGTTAAAGTACAGGTTTCAAGTGTCTCAGCAAGG  
CACACAACACCAATGACTTTGTGACCCTGAGGACCCACAGAGGGATTGCCAGATGCCCTCGAAATCTCCAGCTGT  
CACTCCCCAGGGAAGCAGAAGGTGTGATTGTAGGCCACTGGGCTCCTCCCATCCACACCCATGGCCTCATCCGTG  
AGTACATTGTAGAATACAGCAGGAGTGGTTCCAAGATGTGGGCCTCCCAGAGGGCTGCTAGTAACCTTTACAGAAA  
TCAAGAACTTATTGGTCAACACTCTATACACCGTCAGAGTGGCTGCGGTGACTAGTCGTGGAATAGGAACTGGA  
GCGATTCTAAATCCATTACCACCATAAAAGGAAAAGTGATCCCACCACCAGATATCCACATTGACAGCTATGGTG  
AAAAATTATCTAAGCTTCACCTGACCATGGAGAGTGATATCAAGGTGAATGGCTATGTGGTGAACCTTTTCTGGG  
CATTTGACACCCACAAGCAAGAGAGGAGAACCTTTGAACTTCCGAGGAAGCATATTGTACACAAAGTTGGCAATC  
TGACAGCTCATACTCTATGAGATTTCTGCCTGGGCCAAGACTGACTTGGGGGATAGCCCTCTGGCATTGAGC  
ATGTTATGACCAGAGGGGTTTCGCCACCTGCACCTAGCCTCAAGGCCAAAGCCATCAACCAGACTGCAGTGGAAAT  
GTACCTGGACCGGCCCCCGGAATGTGGTTTATGGTATTTCTATGCCACGTCCTTTCTTGACCTCTATCGCAACC  
CGAAGAGCTTGACTACTTCACTCCACAACAAGACGGTCATTGTCAGTAAGGATGAGCAGTATTTGTTTCTGGTCC  
GTGTAGTGGTACCCTACCAGGGGCCATCCTCTGACTACGTTGTAGTGAAGATGATCCCGGACAGCAGGCTTCCAC  
CCCGTCACCTGCATGTGGTTCATACGGGCAAAACCTCCGTGGTCATCAAGTGGGAATCACCGTATGACTCTCCTG  
ACCAGGACTTGTTGTATGCAATTGCAGTCAAAGATCTCATAAGAAAGACTGACAGGAGCTACAAAGTAAATCCC  
GTAACAGCACTGTGGAATACACCCTTAACAAGTTGGAGCCTGGCGGGAAATACCACATCATTGTCCAACCTGGGGA  
ACATGAGCAAAGATTCCAGCATAAAAATTACCACAGTTTCATTATCAGCACCTGATGCCTTAAAAATCATAACAG  
AAAATGATCATGTTCTTCTGTTTTGGAAAAGCCTGGCTTTAAAGGAAAAGCATTTTAATGAAAGCAGGGGCTATG  
AGATACACATGTTTGATAGTGCCATGAATATCACAGCTTACCTTGGGAATACTACTGACAATTTCTTTAAATTT  
CCAACCTGAAGATGGGTCTAATTAACAGTTTACCGTCCAAGCAAGATGCCTTTTGGCAACCAGATCTGTGGGG  
AGCCTGCCATCCTGCTGTACGATGAGCTGGGGTCTGGTGCAGATGCATCTGCAACGCAGGCTGCCAGATCTACGG  
ATGTTGCTGCTGTGGTGGTGCCCATCTTATTCCTGATACTGCTGAGCCTGGGGGTGGGGTTTGCCATCCTGTACA  
CGAAGCACCGGAGGCTGCAGAGCAGCTTACCGCCTTCGCCAACAGCCACTACAGCTCCAGGCTGGGGTCCGCAA  
TCTTCTCCTCTGGGGATGACCTGGGGGAAGATGATGAAGATGCCCTTATGATAACTGGATTTTTCAGATGACGTCC  
CCATGGTGATAGCCTGAAAGAGCTTTCTCTACTAGAAACCAATGGTGTAAATATTTTATTTGATAAAGATAGTT  
GATGGTTTATTTTAAAGATGCACCTTGAGTTGCAATATGTTATTTTATATGGGCCAAAAACAAAAACAAAAA  
AAAAAA



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**FIGURE 732**

MATRSSRRESRLPFLFTLVALLPFGALCEVWTQRLHGGSAPLPQDRGFLVVQGDPRELRLWARGDARGASRADEK  
PLRRKRSAAALQPEPIKVYGOVSLNDSHNQMVVHWAGEKSNVIVALARDSLALARPKSSDVVSYDYGKSFKKISD  
KLNFGGLGNRSEAVIAQFYHSPADNKRYIFADAYAQYLWITFDFCNTLQGF SIPFRAADLLHASKASNLLLGFD RS  
HPNKQLWKSDDFGQ TWIMIQEHVKSFSWGIDPYDKPNTIYIERHEPSGYSTVFRSTDFQ SRENQEVILEEVRDF  
QLRDKYMFATKVVHLLGSEQQSSVQLWVSFGRKPMRAAQFVTRHPINEYYIADASEDQVFVCVSHSNRNRTNLYIS  
EAEGLKFSLSLENVLYYSPGGAGSDTLVRYFANEFPADFHRVEGLQGVYIATLINGSMNEENMRSVITFDKGGTW  
EFLQAPAF TGYGEKINCELSQGC SLHLAQRLS QLLNLQLRRMPILSKESAPGLIIATG SVGKNLASKTNVYISS  
AGARWREALPGPHYTTWGDHGGIITAI AQGMETNELKYSTNEGETWKTFIFSEKPVFVYGLLTPEGEKSTVFTIF  
GSNKENVHSWLILQVNATDALGVPCTENDYKLWSPS DERGNECLLGHKTVFKRRTPHATCFNGEDFDRPVVVSNC  
SCTREDYECDFGFKMSEDL SLEVCVPDPEFSGKSYSPVPVCPVGSTYRRTRGYRKISGDTCSGGDVEARLEGELV  
PCPLAEENEFILYAVRKS IYRYDLASGATEQLPLTGLRAAVALDFDYEHNC LYWSD LALDVIQRLCLNGSTGQEV  
I INSGLETVEALAFEPLS QLLYWVDAGFKKIEVANPDGDFRLTIVNSSV LDRPRALVLPQEGVMFWDWGD LKP  
GIYRSNMDGSAAYHLVSEDVKWPNGISVDDQWIYWT DAYLECIERITFSGQ QRSVILDNLPHPYAIAVFKNEIYW  
DDWSQLSIFRASKYSGSQMEILANQLTGLMDMKIFYKGKNTG SNACVPRPCSLLC LPKANNRSRSCRCPEDVSSSV  
LP SGDL MCD CPQGYQLKNNTCVKEENTCLRNQYRCSNGNCINSIWWCDFDND CGDMSDERNCPTTICDLDTQFRC  
QESGTCIPLSYKCDLEDDCGDNSDESHCEMHQCRSDEYNCS SGM CIRSSWVCDGDND CRDWSDEANCTAIYHTCE  
ASNFQCRNGHCIPQRWACDGD TDCQDGSDEDPVNCEKKCNGFRCPNGTCIPSSKHCDGLRDCSDGSDEQHCEPLC  
THFMDFVCKNRQQCLFHS MVCDGIIQCRDGSDEDAAFAGCSQDPEFHKVCDEF GFQCQNGVCISLIWKCDGMDDC  
GDYSDEANCENPTEAPNCSRYFQFR CENGHCIPNRWKCDREND CGDWSDEKDCGDSHILPFSTPGPSTCLPNYYR  
CSSGTCVMDTWVCDGYRDCADGSDEEACPLLANVTAASTPTQLGRCDRFEFECHQPKTCIPNWKRC DGHQDCQDG  
RDEANCPTHSTLTCSREFQCE DGEACIVLSE RCDGFLDCSDESDEKACSD ELTVYKVQNLQWTADFSGDVTLTW  
MRPKKMPSASCVYNVYYRVVGESIWKTLETHSNKNTNTVLKVLKPDTTYQVKVQVQCLSKAHNTNDFVTLRTPEGL  
PDAPRNLQLSLPREAEGVIVGHWAPP IHTHGLIREYIVEYSRSGSKMWASQRAASNFT EIKNLLVNTLYTVRVAA  
VTSRGIGNWSDSKSITTIGKVIPPPDIHIDSYGENYLSFTLT MESDIKVNGYVVNLFWAFDTHKQERRTLNFRG  
SILSHKVG NLT AHTSYEISAWAKTDLGDSPLAFEHVMTRGV RPPAPSLKAKAINQTAVECTWTGPRNVVYGIFYA  
TSFLDLYRNPKSLT TSLHNKTVIVSKDEQYLFLVRVVVPYQGPSSDYVVVKMIPDSRLPPRHLHV VHTGKTSVVI  
KWESPYDSPDQDLLY AIAVKDLIRKTD RSYKVKS RNSTVEYTLNKLEPGG

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**FIGURE 733**

GGCACGAGGCTGCGCCGGAAGTCCCTAGCCAGGCCTGGCGGTAACCTTGGGGGCCTCACTGCAGCCGCCGCTGCT  
GTTGGAGTGGGCTTTGCGAGTCTGAACGTTGGCGGGGCTAGGCTCGTTAACTGCCGAGAGCCTCCGGGTTTGCGG  
TGGAGGACGCTGAGGCCCGTGGGGGGCAGGCACCCGGGCGCCGGGCCTCCCAGCCGAC**ATG**TCTCTAGTGCGGA  
AGCCTTCGTCTCCCAGATTGCAGCTGCAGAACCTTGGCCTGAAAAATGCTACATTATATCAGCAATTGAAAGGGGA  
GCAAATTTTACTTTCTGACAATGCAGCTTCTCTTGCACTGCAGGCCTTTTTGCAAATGTGTAACCTGCCTATCAA  
AGTAGTTTGTAGGGCAAATGCAGAATATATGTCTCCATCTGGTAAAGTACCTTTTATTCATGTGGGAAATCAAGT  
AGTATCAGAACTTGGTCCAATAGTCCAATTTGTTAAAGCCAAGGGCCATTCTCTTAGTGATGGGCTGGAGGAAGT  
CCAAAAAGCAGAAATGAAAGCTTACATGGAATTAGTCAACAATATGCTGTTGACTGCAGAGCTGTATCTTCAGTG  
GTGTGATGAAGCTACAGTAGGGGAGATCACTCATGCTAGGTATGGATCTCCTTACCCTTGGCCTCTGAATCATAT  
TTTGGCCTATCAAAAACAGTGGGAAGTCAAACGTAAGATGAAAGCTATTGGATGGGGAAAGAAGACTCTGGACCA  
GGTCTTAGAGGATGTAGACCAGTGCTGTCAAGCTCTCTCTCAAAGACTGGGAACACAACCGTATTTCTTCAATAA  
GCAGCCTACTGAACTTGACGCACTGGTATTTGGCCATCTATACACCATTCTTACCACACAATTGACAAATGATGA  
ACTTTCTGAGAAGGTGAAAACTATAGCAACCTCCTTGCTTTCTGTAGGAGAATTGAACAGCACTATTTTGAAGA  
TCGTGGTAAAGGCAGGCTGTCA**TAG**AGTTATGTGTTAGTCTCAGGAGTCTTAACCTTTTGAAATATGTTTTACTTG  
AATGTTACATTAGATATTGGTGTGAGAATTTTAAACCAAATTACTGCTTTTTTGAAACCTCAAATTATATAATGT  
ATCTTATGTATGTGCTTTATATTGTTATTTGTGTATACATTAAATAATTCTGAATTATTTAATCTGATATGTTG  
TATTCTGTATCTTGAAATTTTTGTTTCCTTGAAACATGCATGCATTTAAAAATAAAGCTTAAACAACCTGT

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**FIGURE 734**

MSLVAEAFVSQIAAAEPWPENATLYQQLKGEQILLSDNAASLAVQAFLQMCNLP  
IKVVCRAAEYMSPSGKVPFI  
HVGNOVVSELGPVQFVKAKGHSLSDGLEEVQKAEMKAYMELVNNMLLTAE  
LYLQWCDEATVGEITHARYGSPYP  
WPLNHILAYQKQWEVKRKMKAIGWGKKTLDQVLEDVDQCCQALSQRLGTQ  
PYFFNKQPTELDALVFGHLYTILTT  
QLTNDELSEKVKNYSNLLAFCRRIEQHYFEDRGKGRLS

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**FIGURE 735A**

GCGGCCGCGTCGACGCGGCGGCGGCAGCGGCGTCGGCTCGGGGTCTCCGGGAGAGGGGAGTGCGCGGCGGCCG  
CAGCTGCCACAAACCAGGTGAAGCTTTGTTCTAAGAATATTTGTTTCATCTAGTTTATGAGTCCAAATGATATAG  
ACTGTAAATGTACAGCAGTGGTGAAAGACTGCTCGGT**CATG**AGCACCGACAGTAACTCACTGGCACGTGAATTT  
CTGACCGATGTCAACCGGCTTTGCAATGCAGTGGTCCAGAGGGTGGAGGCCAGGGAGGAAGAAGAGGAGGAGACG  
CACATGGCAACCCCTTGACAGTACCTTGTCATGGTCGAGGATTTCTATTACTTACCAAGCTAAATTTCTATAATT  
GATCAGGCATTGACATGTAGAGAAGAACTCCTGACTCTTCTTCTGTCTCTCCTTCCACTGGTATGGAAGATACCT  
GTCCAAGAAGAAAAGGCAACAGATTTTAACTACCGCTCTCAGCAGATATAATCCTGACCAAAGAAAAGAACTCA  
AGTTCACAAAGATCCACTCAGGAAAAATTACATTTAGAAGGAAGTGCCCTGTCTAGTCAGGTTTTCTGCAAAAGTA  
AATGTTTTTCGAAAAAGCAGACGACAGCGTAAAATTACCCATCGCTATTCTGTAAGAGATGCAAGAAAGACACAG  
CTCTCCACCTCAGATTCAGAAGCCAATTCAGATGAAAAAGGCATAGCAATGAATAAGCATAGAAGGCCCCATCTG  
CTGCATCATTTTTTAACATCGTTTCCTAAACAAGACCACCCCAAAGCTAAACTTGACCGCTTAGCAACCAAAGAA  
CAGACTCCTCCAGATGCTATGGCTTTGGAAAATTCCAGAGAGATTATTCCAAGACAGGGGTCAAACACTGACATT  
TTAAGTGAGCCAGCTGCCTTGTCTGTTATCAGTAACATGAACAATTTCTCATTGACTTATGTCATGTTTTGTTA  
TCTTTATTAGAAAAAGTTTGTAAGTTTGACGTTACCTTGAATCATAATTCTCCTTTAGCAGCCAGTGTAGTGCCC  
ACACTAACTGAATTCCTAGCAGGCTTTGGGGACTGCTGCAGTCTGAGCGACAACCTTGGAGAGTCGAGTAGTTTCT  
GCAGGTTGGACCGAAGAACCGGTGGCTTTGATTCAAAGGATGCTCTTTCGAACAGTGTTGCATCTTCTGTGAGTA  
GATGTTAGTACTGCAGAGATGATGCCAGAAAATCTTAGGAAAAATTTAACTGAATTGCTTAGAGCAGCTTTAAAA  
ATTAGAATATGCCTAGAAAAGCAGCCTGACCCTTTTGACCAAGACAAAAGAAAACACTGCAGGAGGTTTCAGGAA  
GATTTTGTGTTTTCAAAGTATCGTCATAGAGCCCTTCTTTTACCTGAGCTTTTGGAAGGAGTTCTTCAGATTCTG  
ATCTGTTGTCTTCAAAGTGCAGCTTCAAATCCCTTCTACTTCAGTCAAGCCATGGATTGTTGTTCAAGAATTCATT  
CAGCATCATGGATTTAATTTATTTGAAACAGCAGTTCTTCAAATGGAATGGCTGGTTTTAAGAGATGGAGTTCTT  
CCCGAGGCCTCAGAGCATTGAAAGCCCTAATAAATAGTGTGATGAAAATAATGAGCACTGTCAAAAAAGTGAAA  
TCAGAGCAACTTCATCATTTCGATGTGTACAAGAAAAAGGCACAGACGATGTGAATATTCTCATTTTTATGCATCAT  
CACCGAGATCTCTCAGGTCTTCTGGTTTTCGGCTTTTAAAAACCAGGTTTCCAAAAACCCATTTGAAGAGACTGCA  
GATGGAGATGTTTATTATCCTGAGCGGTGCTGTTGCATTGCAGTGTGTGCCCATCAGTGCTTGCGCTTACTACAG  
CAGGCTTCCTTGAGCAGCACTTGTGTCCAGATCCTATCGGGTGTTTATAACATTGGAATATGCTGTTGTATGGAT  
CCCAATCTGTAATCATTCCCTTGTCTCCATGCTTTTAAATTGCCAGCACTGAAAAATTTTCAGCAGCATATATTG  
AATATCCTTAACAACTTATTTTGGATCAGTTAGGAGGAGCAGAGATATCACAAAAATTAAAAAGCAGCTTGT  
AATATTTGTACTGTTGACTCTGACCAACTAGCCCAATTAGAAGAGACACTGCAGGGAACTTATGTGATGCTGAA  
CTCTCCTCAAGTTTATCCAGTCCTTCTTACAGATTTCAAGGGATCCTGCCAGCAGTGGATCTGAAGATTTGTTG  
TGGAATGGGATGCTTTAAAGGCTTATCAGAACTTTGTTTTTGAAGAAGACAGATTACATAGTATACAGATTGCA  
AATCACATTGCAATTTAATCCAGAAAGGCAATATAGTTGTTTCAGTGGAATTATATAATTACATATTTAATCCT  
GTGCTCCAAAGAGGAGTTGAATTAGCACATCATTGTCAACACCTAAGCGTTACTTCAGCTCAAAGTCATGTATGT  
AGCCATCATAACCAGTGCTTGCTCAGGACGTGCTTCAGATTTATGTAAAACTCTGCCTATCCTGCTTAAATCC  
AGGGTAATAAGAGATTTGTTTTTGAGTTGTAATGGAGTAAGTCAAATAATCGAATTAAATTGCTTAAATGGTATT  
CGAAGTCATTCTCTAAAAGCATTGAACTCTGATAATCAGCCTAGGGGAGCAACAGAAAGATGCCTCAGTTCCA  
GATATTGATGGGATAGACATTGAACAGAAGGAGTTGTCTCTGTACATGTGGGTACTTCTTTTCATCATCAGCAA  
GCTTATTCAGATTCTCCTCAGAGTCTCAGCAAAATTTATGCTGGCCTCAAAGAAGCTTATCCAAAGAGACGGAAG  
ACTGTTAACCAAGATGTTTCATATCAACACAATAAACCTATTCCTCTGTGTGGCTTTTTTATGCGTAAGTAAAGAA  
GCAGAGTCTGACAGGGAGTCGGCCAATGACTCAGAAGATACTTCTGGCTATGACAGCACAGCCAGCGAGCCTTTA  
AGTCATATGCTGCCATGTATATCTCTCGAGAGCCTTGCTTGCCTTCTCCTGAACATATGCACCAAGCAGCAGAC  
ATTTGGTCTATGTGTCGTTGGATCTACATGTTGAGTTCAGTGTTCAGAAACAGTTTTATAGGCTTGGTGGTTTTC  
CGAGTATGCCATAAGTTAATATTTATGATAATACAGAACTGTTTCAGAAAGTCACAAAGAGGAGCAAGGAAAAAG  
GAGGGAGATACAAGTGTAATGAAAACCAGGATTTAAACAGAAATTTCTCAACCTAAGAGAACTATGAAGGAAGAT  
TTATTATCTTTGGCTATAAAAAGTGACCCCATACCATCAGAACTAGGTAGTCTAAAAAAGAGTGCTGACAGTTTA  
GGTAAATTAGAGTTACAGCATATTTCTTCATAAATGTGGAAGAAGTTTCAGCTACTGAAGCCGCTCCCGAGGAA  
GCAAAGCTATTTACAAGTCAAGAAAGTGAGACCTCACTTCAAAGTATACGACTTTTGGAAGCCCTTCTGGCCATT  
TGTCTTCATGGTGCCAGAAGTAGTCAACAGAAGATGGAATTGGAGTTACCTAATCAGAACTTGTCTGTGGAAAGT

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**FIGURE 735B**

ATATTATTTGAAATGAGGGACCATCTTTCCCAGTCAAAGGTGATTGAAACACAACCTAGCAAAGCCGTTATTTGAT  
GCCCTGCTTCGAGTTGCCCTCGGGAATTATTTCAGCAGATTTTGAACATAATGATGCTATGACTGAGAAGAGTCAT  
CAATCTGCAGAAGAATTGTCATCCCAGCCTGGTGATTTTTTCAGAAGAAGCTGAGGATTCTCAGTGTTGTAGTTTT  
AAACTTTTTAGTTGAAGAAGAAGGTTACGAAGCAGATAGTGAAAGCAATCCTGAAGATGGCGAAACCCAGGATGAT  
GGGGTAGACTTAAAGTCTGAAACAGAAGGTTTCAGTGTCATCAAGCAGTCCAAATGACTTACTCGAAAACCTCACT  
CAAGGGGAAATAATTTATCCTGAGATTTGTATGCTGGAATTAATTTGCTTTCTGCTAGTAAAGCCAAACTTGAT  
GTGCTTGCCCATGTATTTGAGAGTTTTTTGAAAATTATTAGGCAGAAAGAAAAGAATGTTTTTCTGCTCATGCAA  
CAGGGAACCTGTGAAAAATCTTTTAGGAGGGTTCTTGAGTATTTTAACACAGGATGATTCTGATTTTTCAAGCATGC  
CAGAGAGTATTGGTGGATCTTTTGGTATCTTTGATGAGTTCAAGAACATGTTTCAGAAGAGCTAACCCCTCTTTTG  
AGAATATTTCTGGAGAAATCTCCTTGTACAAAAATCTTCTCTGGGTATTCTGAAAATTATTGAAAGTGATACT  
ACTATGAGCCCTTCACAGTATCTAACCTTCCCTTTACTGCACGCTCCAAATTTAAGCAACGGTGTTCATCACAA  
AAGTATCCTGGGATTTTAAACAGTAAGGCCATGGGTTTATTGAGAAGAGCACGAGTTTCACGGAGCAAGAAAGAG  
GCTGATAGAGAGAGTTTTCCCATCGGCTGCTTTCATCTTGGCACATAGCCCCAGTCCACCTGCCGTTGCTGGGG  
CAAACTGCTGGCCACACCTATCAGAAGGTTTCAGTGTTTCCCTGTGGTTTAAATGTGGAGTGTATCCATGAAGCT  
GAGAGTACTACAGAAAAAGGAAAGAAGATAAAGAAAAGAAACAAATCATTATTTTACCAGATAGCAGTTTTGAT  
GGTACAGAGAGCGACAGACCAGAAGGTGCAGAGTACATAAATCCTGGTGAAAGACTCATAGAAGAAGGATGTATT  
CATATAATTTCACTGGGATCCAAAGCGTTGATGATCCAAGTGTGGGCTGATCCCCACAATGCCACTCTTATCTTT  
CGTGTGTGCATGGATTCAAATGATGACATGAAAGCTGTTTTACTAGCACAGGTTGAATCACAGGAGAATATTTTC  
CTCCCAAGCAAAATGGCAACATTTAGTACTCACCTACTTACAGCAGCCCCAAGGGAAAAGGAGGATTTCATGGGAAA  
ATCTCCATATGGGTCTCTGGACAGAGGAAGCCTGATGTTACTTTGGATTTTATGCTTCCAAGAAAAACAAGTTTG  
TCATCTGATAGCAATAAAACATTTTGCATGATTGGCCATTGTTTATCATCCCAAGAAGAGTTTTTGCAGTTGGCT  
GGAAAATGGGACCTGGGAAATTTGCTTCTCTTCAACGGAGCTAAGGTTGGTTCACAAGAGGCCTTTTATCTGTAT  
GCTTGTGGACCCAACCATAACATCTGTAATGCCATGTAAAGTATGGCAAGCCAGTCAATGACTACTCCAAATATATT  
AATAAAGAAAATTTTGCATGTGAACAAATCAGAGAACTTTTTATGACCAAGAAAGATGTGGATATTGGTCTCTTA  
ATTGAAAGTCTTTTCAGTTGTTTATACAACCTTACTGTCTGCTCAGTATACCATCTATGAACCAGTGATTAGACTT  
AAAGGTCAAATGAAAACCCAACCTCTCTCAAAGACCCTTCAGCTCAAAAGAAGTTCAGAGCATCTTATTAGAACCT  
CATCATCTAAAGAATCTCCAACCTACTGAATATAAACTATTCAAGGCATTCTGCACGAAATTGGTGGAACTGGC  
ATATTTGTTTTTCTCTTTGCCAGGGTTGTTGAACTCAGTAGCTGTGAAGAACTCAAGCATTAGCACTGCGAGTT  
ATACTCTCATTAATTAAATACAACCAACAAAGAGTACATGAATTAGAAAATTGTAATGGACTTTCTATGATTTCAT  
CAGGTGTTGATCAAACAAAAATGCATTGTTGGGTTTTACATTTTGAAGACCCTTCTTGAAGGATGCTGTGGTGAA  
GATATTATTTATATGAATGAGAATGGAGAGTTTAAAGTTGGATGTAGACTCTAATGCTATAATCCAAGATGTTAAG  
CTGTTAGAGGAACTATTGCTTGACTGGAAGATATGGAGTAAAGCAGAGCAAGGTGTTTGGGAACTTTGCTAGCA  
GCTCTAGAAGTCTCATCAGAGCAGATCACCACCAGCAGATGTTTAAATATTAGCAGTTATTGAAAGCTCAAGTG  
GTTTCATCACTTTCTACTGACTTGTGAGGTTTTGCAGGAATACAAAAGAGGGGCAACTCACACCCATGCCCGAGAG  
GTTTGTAGATCATTGTGAAAATTATAGCAGAAGTCCTTGATCTCCTCCAGATTTGGAATTATTGACAATTATC  
TTCAATTTCTTTTAGCAGTTTACCCTCTACTAATACTTACGTTTGTACAAATCCACGAACCTTCTACTTTCT  
TTGCACATAGATGGCAAGATCTTTCAGGAGAAAGTGCGGTCAATCATGTACCTGAGGCATTCCAGCAGTGGAGGA  
AGGTCCCTTATGAGCCCTGGATTTATGGTAATAAGCCCATCTGGTTTTACTGCTTACCATATGAAGGAGAGAAT  
TCCTCTAATATTATTCCACAACAGATGGCCGCCCATATGCTGCGTTCTAGAAGCCTACCAGCATTCCCTACTTCT  
TCACTACTAACGCAATCACAAAACTGACTGGAAGTTTGGGTTGTAGTATCGACAGGTTACAAAATATTGCAGAT  
ACTTATGTTGCCACCCAATCAAAGAAACAAAAATCTTTGGGGAGTTCCGACACACTGAAAAAAGGCAAAGAGGAC  
GCATTTCATCAGTAGCTGTGAGTCTGCAAAAATGTTTGTGAAATGGAAGCTGTCTCTCAGCCCAGGTCTCTGTC  
AGTGATGTCCCAAAGGGAGTGCTGGGATTTCCAGTGGTCAAAGCAGATCATAAACAGTTGGGAGCAGAACCCAGG  
TCAGAAGATGACAGTCTGGGGATGAGTCCTGCCCACGCCGACCTGATTACCTAAAGGGATTGGCCTCCTTCCAG  
CGAAGCCACAGCACTATTGCAAGCCTTGGGCTAGCTTTTCTTTCACAGAACGGATCTGCAGCTGTTGGCCGTTGG  
CCAAGTCTTGTGATAGAAACACTGATGATTGGGAAAACTTTGCCTATTCTCTTGGTTATGAGCCAAAATTACAAC  
CGAACTGCAAGTGCTCACAGTGTAAGTGAAGACTGTTTGGTACCTATATGCTGTGGATTATATGAACTCCTAAGT  
GGGGTTCTTCTTATCCTGCCTGATGTTTTGCTTGAAGATGTGATGGACAAGCTTATTCAAGCAGATACACTTTTG

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**FIGURE 735C**

GTCTCGTTAACCACCCATCACCAGCTATACAACAAGGTGTTATTAACTATTAGATGCATATTTTGCTAGAGCA  
TCTAAGGAACAAAAAGATAAATTTCTGAAGAATCGTGGAATTTTCTTGCTAGCCAACCAGTTGTATCTTCATCGA  
GGAAGTCAAGAATTGTTAGAATGCTTCATCGAAATGTTCTTTGGTTCGACATATTGGCCTTGATGAAGAATTTGAT  
CTGGAAGATGTGAGAAACATGGGATTGTTTCAGAAGTGGTCTGTCAATTCCTATTCTGGGACTAATAGAGACCTCT  
CTATATGACAACATACTCTTGCTAATGCTCTTTTACTTCTTCTCCAAATTTTAAATTCCTTGTTCTAAGGTAGCA  
GATATGTTGCTGGATAATGGTCTACTCTATGTGTTATGTAATACAGTAGCAGCCCTGAATGGATTAGAAAAGAAC  
ATTCCCATGAGTGAATATAAATTTGCTTGCTTGATATACAGCAACTTTTCATAGCAGTTACAATTCATGCTTGC  
AGTTCTCAGGCTCACAATATTTTAGGGTTATTGAAGACCTTATTGTAATGCTTGGATATCTTCAAATAGCAAA  
AACAAGAGGACACAAAATATGGCTGTTGCACTACAGCTTAGAGTTCTCCAGGCTGCTATGGAATTTATAAGGACC  
ACCGCAAATCATGACTCTGAAAACCTCACAGATTCAGTCCAGTCACCTTCTGCTCCCCATCATGCAGTAGTTCAA  
AAGCGGAAAAGCATTGCTGGTCTCGAAAATTTCCCTTGCTCAAACCTGAATCGCTTCTGATGAAAATGCGTTCA  
GTGGCAAATGATGAGCTTCATGTGATGATGCAACGGAGAATGAGCCAAGAGAACCCTAGCCAAGCAACTGAAACG  
GAACTTGCGCAGAGACTACAGAGGCTCACTGTTTTAGCAGTCAACAGGATTATTTATCAAGAATTTAATTCAGAC  
ATTATTGACATTTTGAGAACTCCAGAAAATGTAACCTCAAAGCAAGACCTCAGTTTTCCAGACCGAAATTTCTGAG  
GAAAATATTCATCATGAACAGTCTTCTGTTTTCAATCCATTTAGAAAAGAAATTTTACATATCTGGTAGAAGGA  
TTCAAAGTATCTATTGGTTCAAGTAAAGCCAGTGGTTCCAAGCAGCAATGGACTAAAATTTCTGTGGTCTTGTAAG  
GAGACCTTCCGAATGCAGCTTGGGAGACTACTAGTGCATATTTTGTGCGCCAGCCACGCTGCACAAGAGAGAAAAG  
CAAATTTTGAAGTAGTTTCATGAACCAAATCATCAGGAAATACTACGAGACTGTCTCAGCCCATCCCTACAACAT  
GGAGCCAAGTTAGTTTTGTATTTGTGAGAGTTGATACATAATCACCAGGTGAATTGACTGAAGAAGAGCTAGGC  
ACAGCAGAACTGCTTATGAATGCTTTGAAGTTATGTGGTCACAAGTGCATCCCTCCAGTGCATCAACAAAAGCA  
GACCTTATTAATAATGATCAAAGAGGAACAAAAGAAATATGAAACTGAAGAAGGAGTGAATAAAGCTGCTTGGCAG  
AAAAAGTTAACAATAATCAACAAAGTCTCTTTTCCAGCGTCTGGATTCAAATCAAAGGATATATCTAAAATAGCT  
GCAGATATCACCCAGGCAGTGTCTCTCTCCCAAGGAAATGAGAGAAAAAAGGTGATCCAGCATATTAGAGGAATG  
TATAAAGTAGATTTGAGTGCCAGCAGACATTGGCAGGAACTTATTCAGCAGCTGACACATGATAGAGCAGTATGG  
TATGACCCCATCTACTATCCAACCTCATGGCAGTTGGATCCAACAGAAGGGCCAAATCGAGAGAGGAGACGTTTA  
CAGAGATGTTATTTAACTATTCCAATAAGTATCTCCTTAGGGATAGACAGAAATCAGAAGATGTTGTCAAACCA  
CCACTCTCTTACCTGTTTGAAGACAAAACCTCATTCTTCTTTCTCTTCTACTGTCAAAGACAAAGCTGCAAGTGAA  
TCTATAAGAGTGAATCGAAGATGCATCAGTGTTCACCATCTAGAGAGACAGCTGGTGAATTGTTACTAGGTAAA  
TGTGGAATGTATTTTGTGGAAGATAATGCTTCTGATACAGTTGAAAGTTTCAGGCCTTCAGGGAGAGTTGGAACCA  
GCATCATTTTCTGGACATATGAAGAAATTAAGAAGTTTACAAAGCGTTGGTGGCAATTGAGAGATAATGCTGTA  
GAAATCTTTCTAACAAATGGCAGAACACTCCTGTTGGCATTTGATAACACCAAGGTTTCGTGATGATGTATACCAC  
AATATACTCACAATAACCTCCCTAATCTTCTGGAATATGGTAACATCACCGCTCTGACAAATTTATGGTATACT  
GGGCAAATTACTAATTTTGAATATTTGACTCACTTAAACAAACATGCTGGCCGATCCTTCAATGATCTCATGCAG  
TATCCTGTGTTCCCATTTTATACTTGCTGACTACGTTAGTGAGACACTTGACCTCAATGATCTGTTGATATACAGA  
AATCTCTCTAAACCTATAGCTGTTTCAAGTATAAAGAAAAAGAGATCGTTATGTGGACACATACAAGTACTTGGAG  
GAAGAGTACCGCAAAGGAGCCAGAGAAGATGACCCCATGCCTCCCGTGCAGCCCTATCACTATGGCTCCCACTAT  
TCCAATAGCGGCACGTGTGCTTCACTTCTTGGTCAAGATGCCTCCTTTCACTAAAATGTTTTTAGCCTATCAAGAT  
CAAAGTTTTGACATTCCAGACAGAACTTTTCACTTACAAATACAACCTGGCGACTCTCATCTTTTGAATCTATG  
ACTGATGTGAAAGAACTTATCCCAGAGTTTTTCTATCTTCCAGAGTTCTAGTTAACCGTGAAGGTTTTGATTTT  
GGTGTGCGTCAGAAATGGTGAACGGGTAAATCACGTCAACCTTCCCCCTTGGGCGCGTAATGATCCTCGTCTTTTT  
ATCCTCATCCATCGGCAGGCTCTAGAGTCTGACTACGTGTCGCAGAACATCTGTCAAGTGGATTGACTTGGTGT  
GGGTATAAGCAAAAGGGGAAGGCTTCTGTTCAAGCGATCAATGTTTTTCACTCTGCTACATATTTTGAATGGAT  
GTCTCTGCAGTTGAAGATCCAGTTTCAAGAGACGAGCGCTAGAAACCATGATAAAAACCTACGGGCAGACTCCCCGT  
CAGCTGTTCCACATGGCCCATGTGAGCAGACCTGGAGCCAAGCTCAATATTGAAGGAGAGCTTCCAGCTGCTGTG  
GGGTTGCTAGTGCAGTTTGCTTTTCAAGGAGACCCGAGAACAGGTCAAAGAAATCACCTATCCGAGTCTTTTGTCA  
TGGATAAAAGGCTTGAATGGGGGAATACGTGGGTTCCCCCAGTGCTCCAGTACCTGTGGTCTGCTTCAGCCAG  
CCCCACGGAGAAAGATTTGGCTCTCTCCAGGCTCTGCCCACCAGAGCAATCTGTGGTTTTGTACGGAAATTTCTGT  
CTTGTGATGACATATAGCAAGGAACAAGGTGTGAGAAGCATGAACAGTACGGACATTCAAGTGGTCAGCCATCCTG

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**FIGURE 735D**

AGCTGGGGATATGCTGATAATATTTTAAGGTTGAAGAGTAAACAAAGTGAGCCTCCAGTAACTTTATTCAAAGT  
TCACAACAGTACCAGGTGACTAGTTGTGCTTGGGTGCCTGACAGTTGCCAGCTGTTTACTGGAAGCAAATGCGGT  
GTCATCACAGCCTACACAAAACAGATTTACAAGCAGCAGCCATCAGAAATAGAAATGGAGACTCAAATACATCTC  
TATGGTCACACAGAAGAGATAACCAGCTTATTTGTTTGCAAACCATACAGTATACTGATAAGTGTGAGCAGAGAC  
GGAACCTGCATCATATGGGATTTAAACAGGTTATGCTATGTACAAAGTCTGGCGGGACACAAAAGCCCTGTCACA  
GCTGTCTCTGCCAGTGAAACCTCAGGTGATATTGCTACTGTGTGTGATTGAGCTGGCGGAGGCAGTGACCTCAGA  
CTCTGGACGGTGAACGGGGATCTCGTTGGACATGTCCACTGCAGGGAGATCATCTGTTCCGTGGCTTTCTCCAAC  
CAGCCTGAGGGAGTATCTATCAATGTAATCGCTGGGGGATTAGAAAATGGAATTGTAAGGTTATGGAGCACATGG  
GACTTAAAGCCTGTGAGAGAAAATTACATTTCCCAAATCAAATAAGCCCATCATCAGCCTTACATTTTCTTGTGAT  
GGCCACCATTTGTACACAGCAAACAGTGATGGGACCGTGATTGCCTGGTGTGCGGAAGGACCAGCAGCGCTTGAAA  
CAGCCAATGTTCTATTCTTCTTAGCAGCTATGCAGCCGGGTGAATGCGAATGAACCTTACGTTCTCCAAAGCA  
CTTTAACTCCAAACTAGATTTGTTGACTTCACCAGTTTTAGGAGGTTGAACCTAAAGAAATGGATGACTGGACAA  
ACCATCCAAATAATGATAAAGTCTATTCATCTGCACAAAATTCTGAAGAGTCACATGATCCTAAGAGGAAAGTTC  
TGTTCTATTTTAGTGATAATCTGGAAGATTGTGTCAATATGCACTAGCCAACAAGTTTTAAGCCTCGCATGGTAC  
ATTAAAATGATATTCTTAAATTTTTTCCACCAAGGTATTCCAAAGAAAATATTAAGGTCTCCCTTTTTCTAT  
GATTCCAAAAGGACCAGTAGAATTTAAATTGGTTGGTTGATXGTTTATATAAAACACACTAAAATTATATTTTAA  
AAGTTTAXTGCCXTGAAATACTCCTCCACACACACACATGCTCCAAAAGAGGAAAGAAAAAAGATAATTTTT  
AGGACTTGATAATTGCTTTCTTTGAGAAGCAAATTATTCAGTAGGTGCCTCTGTACCAAATATTTTATGGAATAT  
CTAAATACTAAAATAAACTATGAATGAATCTCAAATTAGGCAGTTTTTGCCAGTTGCTTTCTTAGCTCAAAGGA  
GAACCAGAATTTTTTTGACAGCCACAAACAAGAATACAGGTATCTTGGATTTCAGACACATTCTGTTTCTTCATA  
AAAATTTTACTTAAAACTGTGAACGCTAGATATTGACTATCCTTAGTTGAGTCACTGAGGTTTAAACACAATGGT  
AAGTCTTAAAGTCTGCTATTTACAGAGCATTGAATCTGTACCAATTTGCAATAGAAAGCCTTCAGTATGCAAGAA  
GTTTGCATGGGTATTAAGAACACAGCCTAAATAAGGCATTTGATCTAATCTGCAGGAAGAATTTCTTCCCCAAA  
ACAGAATTATAAAAAGCTTACTTTAAACAGGAGGCAGAATAATTCTTTTAGGAAACCATTTCAATTCTGTTTCTACT  
AACCTATACCATCTGAGAATTCCTAAACATCTTGGAGCCGTCTGTCTCTCCCATATGATGGCTGTCTGTATATTT  
TTACTTGGGGTGCTGCTTTTATTGGCTTTGAAAACACTGTCAGATAAGCTCAGTAATATGTTACCATGGGATAAAA  
ATATGTATCCCTGCCTAAGAATAACTTGTGCATTTGTTATGGAAATTTAATTCATATGGTGTGTTACAGTACTACT  
TTTGTAACCTCCAGACTTTCTAAAACATTCTGCTTAAAAACCATATAAAATATAATTCCAAAGTCTCTGCTGTCA  
AGATAGATTGAGAGAAAGCACGTGGCCATGTATGCTTTAACCTTAAACTGCATACACATGTAGTGATACCTAGG  
CTGCATTTAGATCACCGTGTGCTCAGGCCAGGTGTGAATCCTGAGGTCCATGGAGGTGCAGAGATGAGATTACTC  
CTATTCACGTTGAAGTGATTTGCTTTGTTAACAAAAAATTGCAGCTATTGTCTAGCTTTTCAATTTTTTTTACTGAGA  
ACTTTAAATTAGTCCCCTATTAGAATAGGGTTGCTACTCATCTTTTTTTTAAACCGAATTTCAATTTTATCTA  
AAGAGAAAATATGCAGAATAACTGGTCTTGTTAAGAGTGCAATATTATTTTTTATGTAAAAATAAAAAATTAAT  
TGGGGGGATTATTTATTCAGCATGAAACCTAATATGTATATGTTTGAAATACTTCATAATGTGCATGTTGTAGCA  
AACATTTCTGTAAATTATCACAGCTCTGTTACCTTTATATACGCTGCCTCTTCAATTTGGAAATAAATTTTATA  
AAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 736**

MSTDNSNLAREFLTDVNRLCNAVVRVEAREEEEEETHMATLGQYLVHGRGFLLLTCLNSIIDQALTCREELLTL  
LLSLLPLVWKIPVQEEKATDFNLPLSADIILTKEKNSSSQRSTQEKHLHLEGSALSSQVS AKVNVFRKSRQRKIT  
HRYSVRDARKTQLSTSDSEANSDEKGIAMNKHRRPHELLHHFLTSF PKQDHPKAKLDRLATKEQTPPDAMALENSR  
EIIIPRQGSNTDILSEPAALSVISNMNNSPFDLCHVLLSLLEKVCKFDVTLNHN SPLAASVVP TLTTEFLAGFGDCC  
SLSDNLES RVVSAGWTEEPVALIQRMLFRTVLHLLSVDVSTAEMMPENLRKNLT ELLRAALKIRICLEKQDPDFA  
PRQKKT LQEVQEDFVFSKYRHRALLLP ELLEGVLQILICCLQSAASNPFYFSQAMD LVQEFIQHHGFNLFETAVL  
QMEWLVL RDGV PPEASEHLKALINSVMKIMSTVKKVKSEQLHHS MCTRKRHRRC EYSHFMHHHRDL SGLLVSAFK  
NQVSKNPF EETADGDVYYPERCCCI AVCAHQCLRL LQQASLSSTCVQILSGVHNIGICCCMDPKSVI IPL LHAFK  
LPALKNFQQHILN ILNKLILDQLGGA EISPKIKKAACNIC TVDSDQLAQLEETLQGNLCDAELSSSLSSPSYRFQ  
GILPSSGSEDLLWKWDALKAYQNFVFEEDRLHSIQIANHICNLIQKGNIVVQWKLYNIFNPVLQRGVELAHHCQ  
HLSV TSAQSHVCSHHNQCLPDVLQIYVKTLPILLKSRVIRDLFLSCNGVSQIIELNCLNGIRSHSLKAFETLII  
SLGEQQKDASVPDIDGIDIEQKELSSVHVGT SFHHQQAYS DSPQSLSKFYAGLKEAYPKRRKTVNQDVHINTINL  
FLCVAFLCVSKEAESDRESANDSED TSGYDSTASEPLSHMLPCISLES LVLP SPEHMHQAADIWSMCRWIYMLSS  
VFQKQFYRLGGFRVCHKLIFMIIQKLF RSHKEEQGKKEGDTSVNENQDLNRISQPKRTMKEDLLSLAIKSDPIPS  
ELGSLKKSADSLGKLELQHISSINVEEVSATEAAPEEAKLFTSQESETSLQSIRLLEALLAICLHGARTSQQKME  
LELPNQNL SVESILFEMRDHLSQSKVIETQLAKPLFDALLRVALGNYSADFEHNDAMTEKSHQSAEELSSQPGDF  
SEEAEDSQCCSFKLLVEEEGYEADSESNPEDGETQDDGVDLKSETEGFSASSSPNDLLENLTQGEI IYPEICMLE  
LNLLSASKAKLDVLAHVFE SFLKII RQKEKNVFLMQQGT VKNLLGGFLSILTQDDSD FQACQ RVLVDLLVSLMS  
SRTCSEEL TLLL RIFLEKSPCTKILL LGILKIIESDTTMSPSQYLT FPLLHAPNLSNGVSSQKYPGILNSKAMGL  
LRRARVSRSKKEADRESFPHRLLS SWHIAPVHLPLLGQNCWPHLSEGF SVSLWFNVECIHEAE STTEKGKKIKKR  
NKSLILPDSSFDGTESDRPEGA EYINPGERLIEEGCIHII SLGSKALMIQVWADPHNATLIFRVCMDSNDDMKAV  
LLAQVESQENIFLPSKWQHLVLTYLQQPQGKRRIHGKISIWVSGQRKPDVTLDFMLPRKTSLSSDSNKTF CMIGH  
CLSSQEEFLQLAGKWD LGNLLLFNGAKVGSQEA FYLYACGPNHTSVMPC KYGKPVNDYSKYINKEILRCEQIREL  
FMTKKDVDIGLLIESLSVYTTYCPAQYTIYEPVIRLKGQMK TQLSQRPFSSKEVQSILLEPHHLKNLQPT EYKT  
IQGILHEIGGTGIFVFLFARVVELSSCEETQALALRVILSLIKYNQQRVHELENCNGLSMIHQVLIKQKCI VGFY  
ILKTLLEGCCGEDIIYMNENGEFKLDVDSNAIIQDVKLL EELL LDWKIWSKAEQGVWETLLAALEVLIRADHHQQ  
MFNIKQLLKAQVVHFL LTCQVLQEYKEGQLTPMPREVC RSFVKIIAEVL



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**FIGURE 737A**

CTGAGCCGCATCTGCAATAGCACACTTGCCCCGGCCACCTGCTGCCGTGAGCCTTTGCTGCTGAAGCCCCCTGGGGT  
CGCCTCTACCTG**GATG**AGGATGTGCACCCCCATTAGGGGGCTGCTCATGGCCCTTGCAAGTGATGTTTGGGACACGG  
ATGGCATTTCACCCATACCCCGGATCACCTGGGAGCACAGAGAGGTGCACCTGGTGCAGTTTCATGAGCCAGAC  
ATCTACAACACTACTCAGCCTTGCTGCTGAGCGAGGACAAGGACACCTTGACATAGGTGCCCGGGAGGCGGTCTTC  
GCTGTGAACGCACTCAACATCTCCGAGAAGCAGCATGAGGTGTATTGGAAGGTCTCAGAAGACAAAAAAGCAAAA  
TGTGCAGAAAAGGGGAAATCAAAACAGACAGAGTGCCTCAACTACATCCGGGTGCTGCAGCCACTCAGCGCCACT  
TCCCTTTACGTGTGTGGGACCAACGCATTCCAGCCGGCCTGTGACCACCTGAACCTTAACATCCTTTAAGTTTCTG  
GGGAAAAATGAAGATGGCAAAGGAAGATGTCCCTTTGACCCAGCACACAGCTACACATCCGTCATGGTTGATGGA  
GAACTTTATTTCGGGGACGTCTGTATAATTTTTTGGGAAGTGAACCCATCATCTCCGAAATTCTTCCACAGTCCT  
CTGAGGACAGAATATGCAATCCCTTGGCTGAACGAGCCTAGTTTCGTGTTTGCTGACGTGATCCGAAAAAGCCCA  
GACAGCCCCGACGGCGAGGATGACAGGGTCTACTTCTTCTTCACGGAGGTGTCTGTGGAGTATGAGTTTGTGTTT  
AGGGTGCTGATCCACGGATAGCAAGAGTGTGCAAGGGGGACCAGGGCGGCCTGAGGACCTTGACAGAAGAAATGG  
ACCTCCTTCTGAAAGCCCCGACTCATCTGCTCCCGGCCAGACAGCGGCTTGGTCTTCAATGTGCTGCGGGATGTC  
TTCGTGCTCAGGTCCCCGGGCCTGAAGGTGCCTGTGTTCTATGCACTCTTCACCCACAGCTGAACAACGTGGGG  
CTGTGCGCAGTGTGCGCCTACAACCTGTCCACAGCCGAGGAGGTCTTCTCCACGGGAAGTACATGCAGAGCACC  
ACAGTGGAGCAGTCCACACCAAGTGGGTGCGCTATAATGGCCCGGTACCCAAGCCGCGGCCTGGAGCGTGCATC  
GACAGCGAGGCACGGGCCGCCAACTACACCAGCTCCTTGAATTTGCCAGACAAGACGCTGCAGTTCTGTTAAAGAC  
CACCTTTTGATGGATGACTCGGTAACCCCAATAGACAACAGGCCCAGGTTAATCAAGAAAGATGTGAACTACACC  
CAGATCGTGGTGGACCGGACCCAGGCCCTGGATGGGACTGTCTATGATGTCATGTTTGTGACACAGACCGGGGA  
GCTCTGCACAAAGCCATCAGCCTCGAGCACGCTGTTTACATCATCGAGGAGACCCAGCTCTTCCAGGACTTTGAG  
CCAGTCCAGACCCTGCTGCTGTCTTCAAAGAAGGGCAACAGGTTTGTCTATGCTGGCTCTAACTCGGGCGTGGTC  
CAGGCCCCGCTGGCCTTCTGTGGGAAGCACGGCACCTGCGAGGACTGTGTGCTGGCGCGGGACCCCTACTGCGCC  
TGGAGCCCCGCCACAGCGACCTGCGTGGCTCTGCACCAGACCGAGAGCCCCAGCAGGGGTTTGATTAGGAGATG  
AGCGGCGATGCTTCTGTGTGCCCGGATAAAAGTAAAGGAAGTTACCGGCAGCATTTTTTCAAGCACGGTGGCACA  
GCGGAACTGAAATGCTCCCAAAAATCCAACCTGGCCCCGGGTCTTTTGGGAAGTTCCAGAATGGCGTGTGGAAGGCC  
GAGAGCCCCAAGTACGGTCTTATGGGCAGAAAAAACTTGCTCATCTTCAACTTGTGAGAAGGAGACAGTGGGGTG  
TACCAGTGCTGTGTCAGAGGAGAGGGTTAAGAACAAAACGGTCTTCCAAGTGGTCGCCAAGCACGTCTTGGAAGTG  
AAGGTGGTTCCAAAGCCCGTAGTGGCCCCACCTTGTCAGTTGTTTCAGACAGAAGGTAGTAGGATTGCCACCAA  
GTGTTGGTGGCATCCACCAAGGGTCTTCTCCCCCAACCCAGCCGTGCAGGCCACCTCCTCCGGGGCCATCACC  
CTTCTCCCAAGCCTGCGCCACCGGCACATCCTGCGAACCAAGATCGTCATCAACACGGTCCCCCAGCTCCAC  
TCGGAGAAAACCATGTATCTTAAGTCCAGCGACAACCGCCTCCTCATGTCCCTCTTCTCTTCTTCTTGTCTC  
TTCTCTGCTCTTTTTTCTACAACCTGCTATAAGGGATACCTGCCCAGACAGTGCTTGAAATTCGGCTCGGCCCTA  
CTAATTGGGAAGAAGAAGCCCAAGTCAGATTTCTGTGACCGTGAGCAGAGCCTGAAGGAGACGTTAGTAGAGCCA  
GGGAGCTTCTCCCAGCAGAATGGGGAGCACCCCAAGCCAGCCCTGGACACCGGCTATGAGACCGAGCAAGACACC  
ATCACAGCAAAGTCCCCACGGATAGGGAGGACTCACAGAGGATCGACGACCTTTCTGCCAGGGACAAGCCCTTT  
GACGTCAAGTGTGAGCTGAAGTTCGCTGACTCAGACGCAGATGGAGACT**TGAG**GCCGGCTGTGCATCCCCGCTGGT  
GCCTCGGCTGCGACGTGTCCAGGCGTGGAGAGTTTTGTGTTTCTCCTGTTTCAGTATCCGAGTCTCGTGCAGTGCT  
GCGTAGGTTAGCCCGCATCGTGCAGACAACCTCAGTCCTCTTGCTATTTTCTCTTGGGTTGAGCCTGTGACTTG  
GTTTCTCTTTGTCTTTTGGAAAAATGACAAGCATTGCATCCCAGTCTTGTGTTCCGAAGTCAGTCGGAGTACTT  
GAAGAAGGCCACGGCGGCACGGAGTTCTGAGCCCTTTCTGTAGTGGGGAAAGGTGGCTGGACCTCTGTGG  
CTGAGAAGAGCATCCCTTACGCTTCCCCCTCCCCGTAGCAGCCACTAAAAGATTATTTAATTCCAGATTGGAAATG  
ACATTTTAGTTTATCAGATTGGTAACCTTATCGCCTGTTGTCCAGATTGGCACGAACCTTTTCTTCCACTTAATTA  
TTTTTTTAGGATTTTGCTTTGATTGTGTTTATGTGATGGGTCATTTTTTTTTAGTTACAGAAGCAGTTGTGTTAA  
TATTTAGAAGAAGATGTATATCTTCCAGATTTTGTATATATTTGGCATAAAATACGGCTTACGTTGCTTAAGAT  
TCTCAGGGATAAACTTCTTTTTGCTAAATGCATTCTTTCTGCTTTTAGAAATGTAGACATAAACACTCCCCGGAG  
CCCCTCACCTTTTTTCTTTTTCTTTTTTTTTTTTTTAACTTTATTCTTGGAGGAAGCATTGTTTTTGGAGAGAT  
TTTCTTCTGTACTTCGTTTTACTTTTTCTTTTTTTTTTAACTTTTACTCTCTCGAAGAAGAGGACCTTCCACATC  
CACGAGGTGGTTTTGAGCAAGGGAAGGTAGCCTGGATGAGCTGAGTGGAGCCAGGCTGGCCAGAGCTGAGATG

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**FIGURE 737B**

GGAGTGCGGTACAATCTGGAGCCCACAGCTGTCGGTCAGAACCTCCTGTGAGACAGATGGAACCTTCACAAGGGC  
GCCTTTGGTTCTCTGAACATCTCCTTTCTCTTCTTGCTTCAATTGCTTACCCACTGCCTGCCCAGACTTTCTATC  
CAGCCTCACTGAGCTGCCCCTACTGGAAGGGAAGTGGGCCTCGGTGGCCGGGGCCGCGAGCTGTGACCACAGCA  
CCCTCAAGCATACGGCGCTGTTCTGCCACTGTCCTGAAGATGTGAATGGGTGGTACGATTTCAACACTGGTTAA  
TTTCACACTCCATCTCCCCGCTTTGTAAATACCCATCGGGAAGAGACTTTTTTTCATGGTGAAGAGCAATAAAC  
TCTGGATGTTTGTGCGCGTGTGTGGACAGTCTTATCTTCCAGCATGATAGGATTTGACCATTTTGGTGTAAACAT  
TTGTGTTTTATAAGATTTACCTTGTTTTTATTTTTCTACTTTGAATTGTATACATTTGGAAAGTACCCAAATAAA  
TGAGAAGCTTCTATCCTTAAAAAAAAAAAAAA

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**FIGURE 738**

MRMCTPIRGLLMALAVMFGTAMAFAPIPRITWEHREVHLVQFHEPDIYNYSALLLSEDKDTLYIGAREAVFAVNA  
LNISEKQHEVYWKVSEDKKAKCAEKGKSKQTECLNYIRVLQPLSATSLYVCGTNAFQPACDHLNLTsfkflgkne  
DGKGRCPFDPAHSYTSVMVDGELYSGTSYNFLGSEPIISRNSSHSPLRTEYAIPWLNEPSFVFADVIRKSPDSPD  
GEDDRVYFFFTEVSVEYEFVFRVLIPIRIARVCKGDQGGRLTLQKKWTSFLKARLICSRPDSGLVFNVLRLDVFVLR  
SPGLKVPVFYALFTPQLNNVGLSAVCAYNLSTAEVEFSHGKYMQSTTVEQSHTKWVRYNGPVPKPRPGACIDSEA  
RAANYTSSLNLPDKTLQFVKDHPLMDDSVTPIDNRPRLIKDVDNYTQIVVDRTQALDGTVDVMFVSTDRGALHK  
AISLEHAVHIIIEETQLFQDFEPVQTLLLSKKGNRFVYAGSNSGVVQAPLAFCGKHGTCEDCVLARDPYCAWSP  
TATCVALHQTESPSRGLIQEMSGDASVCPDKSKGSYRQHFFKHGGTAEKCSQKSNLARVFWKFNQNGVLKAESPK  
YGLMGRKNLLIFNLSEGD SGVYQCLSEERVKNKTVFQVVAKHVLEVKVVPKPVVAPTL SVVQTEGSRIATKVLVA  
STQGSSPPTPAVQATSSGAITLPPKPAPTGTSCPKIVINTVPQLHSEKTMYLKSSDNRLMSLFLFFFVLFLCL  
FFYNKYKGYLPRQCLKFRSALLIGKKPKSDFCDREQSLKETLVEPGSFSQQNGEHPKPALDTGYETEQDTITSK  
VPTDREDSQRIDDL SARDKPF DVKCELKFADSDADGD

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**FIGURE 739**

AAACACTCTGTGTGGCTCCTCGGCTTTGGGACAGAGTGCAAGACGATGACTTGCAAAATGTCGCAGCTGGAACGC  
AACATAGAGACCATCATCAACACCTTCCACCAATACTCTGTGAAGCTGGGGCACCCAGACACCCCTGAACCAGGGG  
GAATTCAAAGAGCTGGTGCGAAAAGATCTGCAAAATTTTCTCAAGAAGGAGAATAAGAATGAAAAGGTCATAGAA  
CACATCATGGAGGACCTGGACACAAATGCAGACAAGCAGCTGAGCTTCGAGGAGTTCATCATGCTGATGGCGAGG  
CTAACCTGGGCCTCCACGAGAAGATGCACGAGGGTGACGAGGGCCCTGGCCACCACCATAAGCCAGGCCTCGGG  
GAGGGCACCCCCTAAGACCACAGTGGCCAAGATCACAGTGGCCACGGCCATGGCCACAGTCATGGTGGCCACGGC  
CACAGGCCACTAATCAGGAGGCCAGGCCACCCTGCCTCTACCCAACCAGGGCCCCGGGGCCTGTTATGTCAAAC  
GTCTTGGCTGTGGGGCTAGGGGCTGGGGCCAAATAAAGTCTCTTCCTCCAA

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**FIGURE 740**

MTCKMSQLERNIETIINTFHQYSVKLGHPDTLNQGEFKELVRKDLQNFLKKENKNEKVIEHIMEDLDTNADKQLS  
FEEFIMLMARLTWASHEKMHEGDEGPGHHHKPGLGEGTP

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**FIGURE 741A**

CACGTTGGGTGACATAATGGGGTTTTTTTAATTATAGATTACACTGCATTTATTCATCACCCCTGTCTCTCAT  
CCATAACTCAAATTTACTACCAGCAACACAAAATACAAAGATGTGTCCAGTTTCACTACAGCTCTTCGCGTTTAC  
AAGTGTGCGAGCGCTTGCTTTTCGGAACGCCCTTGTGATTGGCCGAGCCAATGCCAGTGACATCAACCAACTTACTT  
TTGATTGGAAGGCTGGTTGCTGGGACTGTAGCGTTTGCAGGAAGTCACTTAACTGTTTGGGAGCTGGAAAACCGA  
AGCTGAAGTTCTCTTTTGCCATAGGAACGAGCGCAACTGACTAGGAAAGATGTGTCCCAAAGCTCCGCAAGCTGG  
AACGTGAGCCAGGAGGCCCGGACCGGCCACGGGACCGCGAGGCACTCCGAAAGTGTGCGGCTGCCCTTCCCTGC  
CTCCAGCTGTTACCCTTTTAAATGTCAGTGTTGAGGCTGTAGGGGTAGCACGAGGCAGCGAAACGGAACAGTC  
GGATTGGCCGCACGCCTCAGTTCTAGACGCACCTCTCCACCGAAGCCGTTCTGACTGGCAGGGGGAGAAAGTAAA  
CAGAGTTGAATCACCTCCCCACTGGCCAATTGGAGGGGGTTTGTTTGTGACGTGATGGGATTCTGCGAAATTG  
TTACTGAGCAAGAGAATGCCGGAACGTGCGGACCGGCCGGAGCAGGGGTTCAGAAGCCGTGAGTGGACTCGGGAA  
AAAGTGTCTCTTAGACCTGGCGCTCGGCGGGGGCCCTCGCCACCCGCGTCGGGGTGATCGGGTGAATGTCTGGGG  
CTTTGGCTCGACGGCGAGGCGGCCGAGGGCGTGACCTCTCTTGACGTTTCTCTCCAGCGCTCGGGGGCGTT  
TTCAGTCGAATAAACTTGCGACCGCCACGTGTGGCATCTTTCCAAGGGAGCCGGCTCAGAGGGGCGGCGCGCCC  
GTCGGGGGATCGCGGCCGGCGCGGGGCAGGGGCGGCGGCTAGAGGCGGCGGCGCGGCGGAGCCCGGGGGCGTGA  
TGCTGCGTGCAGGCGCTGCCGTTACGTAAAGATGAGGGGCTGAGGTGCGCTCGGCGCTCCTGCGAGTCGGAA  
GCGCCCCGCGCCCCCGCCCCCTTGCCGCGCGCGCGTGCAGGGCGGGCGGGTCTGTCGTCGAGGCCAGGGAGGGC  
GAGCCGAACCTCCGCAGCCACCGCCAAGTTTGTCCGCGCGCTGGGCTGCCGTGCGCCGACCAATCTCGCGGC  
CGCTACATGGACTTCGTGGCTGCCAGTGCTGTGGTTTCCATTTCGAACCGCGCTGCGGTGCCGGAGCATGGGGT  
CGCTCCGGACGCCGAGCGGCTGCGACTACCTGAGCGCGAGGTGACCAAGGAGCACGGTGACCCGGGGGACACCTG  
GAAGGATTACTGCACACTGGTCACCATCGCCAAGAGCTTGTGGACCTGAACAAGTACCGACCCATCCAGACCCC  
CTCCGTGTGCAGCGACAGTCTGGAAGTCCAGATGAGGATATGGGATCCGACAGCGACGTGACCACCGAATCTGG  
GTCGAGTCTTCCACAGCCCGGAGGAGAGACAGGATCCTGGCAGCGCGCCAGCCGCTCTCCCTCTCCATCC  
TGGAGTGGCTGCGAAGGGGAAACACGCCTCCGAAAAGAGGCACAAGTGCCCTACAGTGGCTGTGGGAAAGTCTA  
TGGAAAATCCTCCCATCTCAAAGCCATTACAGAGTGATACAGGTGAACGGCCCTTCCCCTGCACGTGGCCAGA  
CTGCCTTAAAAAGTTCTCCCGCTCAGACGAGCTGACCCGCCACTACCGGACCCACACTGGGGAAAAGCAGTTCCG  
CTGTCCGCTGTGTGAGAAGCGCTTCATGAGGAGTGACCACCTCACAAAGCACGCCCCGGCGGCACACCGAGTTCCA  
CCCCAGCATGATCAAGCGATCGAAAAAGGCGCTGGCCAACGCTTTGTGAGGTGCTGCCCGTGAAGCCAGGGAGG  
GATGGACCCCGAAAAGGACAAAAGTACTCCAGGAAACAGACGCGTGAAAACCTGAGCCCCAGAAGAGGCACACTTG  
ACGGCACAGGAAGTCACTGCTCTTTGGTCAATATTCTGATTTTCTCTCCCTGCATTGTTTTTAAAAAGCACATT  
GTAGCCTAAGATCAAAGTCAACAACACTCGGTCCCCTGAAGAGGCAACTCTCTGAACCCGTCTCTGACTGTTGG  
AGGGAAGGCAAAATGCTTTTGGGTTTTTTGGTTTTTGTTTTTTGTTTTTTTTCTCCTTTTATTTTTTTGCGGGGA  
GGGTAGGGAGTGGGTGGGGGGGAGGGGGTAAGGCCAAGACTGGGTAGATTTTAAAGATTCAACACTGGTGTACAT  
ATGTCCGCTGGGTGAGTTGACCTGTGGCCTCGCACAGTGATTCTAGGCCCTTTATGCTTGCTGTCTCTCAGAATT  
GTTTTCTTACCTTTTAAATGTAATGACGAGTGTGCTTCAGTTTGTGTAGCAAACCACTCTCTTGAATCACGTTAA  
CTTTTGAGATTAAAAAAGGCGCATAGCACAGCTGTCTTTATGCAAGCAAGAGCACATCTACTCCAGCATGA  
TCTGTCTCTAAAGACTTGAAAACAAAAACAGTTACTTATAGTCAATGGGTAAGCAGAGTCTGAATTTATACTA  
ATCAAGACAAACCTTTGAAAGGTTACACTAAGTACAGAACTTTTAAACCTTGCTTTGTATGAGTTGTACTTTTG  
AACATAAGCTGCACTTTTATTTTCTAATGCAGAGGATGAATAAGTTAAATACATGCTTTGAGGATAGAAGCAGAT  
GTTCTGTTTGGCACCACGTTATAATCTGCTTATTTTACAATATACACGTTTCCCTAAGAAATCATGCGCAGAGAT  
GTGAGGGCAGAAATACACAACAGATGCTGAAGGAGAAGGAGGGTAGTGTTTTGCAAAAGAAAAAGAAAAGAACC  
AACAGAATTTTAACTCTATTAACCTTTTCCAAATTTTCCATATGCTTTTAGTTAACATCATTATTGTATCCTAATGC  
CACTAGGGGAGAGAGCTTTTGACTCTGTTGGGTTTTTATTTGAATGTGTGCATAACAGTAATGAGATCTGGAAACA  
CCTATTTTTTTGGGGAAAAAGGTTTGTGGTCTCCTTCCCTGTGTTCCCTACAAAACCTCCCACTCTCAGGTGCAAGAG  
TTATGTAGAAGGAAAGGGAGCTGAAATAGGAACAGAAAAATCAACCCCTATAACTAGTGAACACCAAGGGAAAAAT  
ACCACAATGATTTAGAGGAGACTCTGCAAAATCGTCCCTTGTGGAGAATGCAGGCAACATGGAATACTACGAAT  
GAAATCACATCACTGTATCTTTTACATCAATAGCCTCACCCTAATATATCTTGTATCTAGGTGTCTATAATGGC  
TGAAACCACTACATCCATCTATGCCATTTACCTGAAAACCTAACTGTGGCCTTTATGAGGCCAGAAAAGTGAAC  
GAGTTTTGTAGTTAAGACCTCAAATGAGGGGAGTCAGCAGTGATCATGGGGGAAATGTTTACATTTTTTTTTTCT

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**FIGURE 741B**

TCAGAAGTAACGCTTTCTGATGATTTTATCTGATATTTAAACAGGGAGCTATGGTGCACTCTAGTTTATACTTG  
CGCTCTGAAATGTGTAAACATAGGGTGCCTACCTATTTACCTGACCCATACTCGTTTCTGATTTCAGAAATCAGTG  
TGGGCTCCTGCAGTGGGCGCGGGTCACGGCTGACTCCAACCTTCCAATACAACAGCCATCACTAGCACAGTGT  
TTTGTTTAAACCAACGTAGTGTTATTAGTAGTTCTATAAAGAGAAGCTGCTTTTAAACATTAGGGACTGGGAGCAGTC  
CATGGGATAAAAAGGAAAGTGTTTTCTCACGAGAAAAACATGTCAGGAAAAATAAAGAACACTTTCTACCTCTGTT  
TCAGATTTTTGAAACACTTATTTTAAACCAAATTTTAATTTCTGIGTCCAAAATAAGTTTTAAGGACATCTGTTC  
TTCCATACGAAATAGGTTAGGCTGCCTATTTCTCACTGAGCTCATGGAATGGTTCTGCTTATGATACTCTGCACG  
CTGCCTTTTAGTGAGTGAGGAGTTTGGGGTTGCCTAGCACTTGCTAACTTGTAAGAAAGTCATCTTTCCCTCACAG  
AAAGAAACGAAAGAAAGCAAAGCAAAGTCAGTGAAAGACAATCTTTATAGTTTCAGGAGTAAATCTAAATGTGGC  
TTTTGTCAAGCACTTAGATGGATATAAATGCAGCAACTTGTTTTAAAAAATGCACATTTACTTCCAAAAAAGT  
TGTTACTTGCCTTTTCAAGTGTGACAACTCACATTTGATATTCTCTTATATGTTATAGTAATGTAACGTATAAA  
CTCAAGCCTTTTTATTCTTTGTGATTAAATCCTGTTTTAAATGTCACAAAACAGGAACCAGCATTCTAATTAGA  
TTTACTATATCAAGATATGGTTCAAATAGGACTACTAGAGTTCATTGAACACTAAAACATATGAAACAATTACTTT  
TTATATTTAAAAAGACCATGGATTTAACTTATGAAAATCCAAATGCAGGATAGTAATTTTTGTTTACTTTTTTAAC  
CAAACCTGAATTTTTGAAAGACTATTGCAGGTGTTTTAAAAAGAAAGAAAGTTGTTTTATCTAATACTGTAAGTAG  
TTGTCATATTCTGGAAAATTTAATAGTTTTAGAGTTAAGATATCTCCTCTCTTTGGTTAGGGAAGAAGAAAGCCC  
TTCACCATGTGGAATGATGCCCTGGCTTTAAGGTTAGCTCCACATCATGCTTCTCTT

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**FIGURE 742**

MSAAAYMDFVAAQCLVSI SNRAAVPEHGVAPDAERLRLPEREVTKEHGDPGDTWKDYCTLVTIAKSLLDLNKYRP  
IQTPSVCSDSLESPDEDMGSDSDVTTESGSSPSHSPEERQDPGSAPSPLSLLHPGVAAKGKHASEKRHKCPYSGC  
GKVYKGSSHLKAHYRVHTGERPFPCTWPDCLKKFSRSEDLTRHYRTHGTGEKQFRCP LCEKRFMRSDHLTKHARRH  
TEFHPSMIKRSKKALANAL



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**FIGURE 743**

GGCACGAGGGATCCCGGATGTGGATCAAGTTGGTGGGAAGCGTGCGGTGCCGCAGCA**ATG**GCGGCGCTCACAATT  
GCCACGGGTACTGGCAATTGGTTTTTCGGCTTTGGCGCTCGGGGTGACTCTTCTCAAATGCCTTCTCATCCCCACA  
TACCATTCCACAGATTTTGAAGTACACCGAAACTGGCTTGCTATCACTCACAGTTTGCCAATATCACAGTGGTAT  
TATGAGGCAACTTCAGAGTGGACGTTGGATTACCCCCCTTTCTTTGCATGGTTTGAGTATATCCTGTACATGTT  
GCCAAATATTTTGATCAAGAAATGCTGAATGTCCATAATTTGAATTACTCCAGCTCAAGGACCTTACTTTTCCAG  
AGATTTTCCGTCACTTTTATGGATGTACTCTTTGTGTATGCTGTCCGTGAGTGCTGTAAATGCATTGATGGAAAA  
AAAGTGGGTAAAGAACTTACAGAAAAGCCAAATTTATTCTGTCCGTATTACTTCTGTGGAACCTTCGGGTATTA  
ATTGTGGACCATATTCAATTTTTCAGTACAATGGCTTTTTATTGGATTAATGCTACTCTCCATTGCACGATTATTT  
CAGAAAAGGCATATGGAAGGAGCATTTCTCTTTGCTGTTCTCCTACATTTCAAGCATATCTACCTCTATGTAGCA  
CCAGCTTATGGTGTATATCTGCTGCGATCCTACTGTTTCACTGCAAATAAACCAGATGGGTCTATTCGATGGAAG  
AGTTTCAGCTTTGTTTCGTGTTATTTCCCTGGGACTGGTTGTTTTCTTAGTTTCTGCTCTTTTATTGGGTCCCTTC  
CTGGCCTTGAATCAGCTGCCTCAAGTCTTTTCCCGACTCTTTCCTTTCAAGAGGGGCTCTGTCTATGCATATTGG  
GCTCCAAACTTCTGGGCTTTGTACAATGCTTTGGACAAAGTGTCTGTCTGTCTATCGGTTTGAAATTGAAATTTCTT  
GATCCCAACAATATTTCCCAAGGCCTCAATGACAAGTGGTTTGGTTTCAAGCAGTTCCAACACACAGTCCTTCCCTCA  
GTGACTCCCTTGGCAACCCTCATCTGCACACTGATTGCCATATTGCCCTCTATTTTCTGTCTTTGGTTTAAACCC  
CAAGGGCCCAGAGGCTTTCTCCGATGTCTAACTCTTTGTGCCTTGAGCTCCTTTATGTTTGGGTGGCATGTTTAT  
GAAAAAGCCATACTTCTAGCAATTCTCCCAATGAGCCTTTTGTCTGTGGGAAAAGCAGGAGACGCTTCGATTTTT  
CTGATTCTGACCACAACAGGACATTATTCCCTCTTTCCTCTGCTCTTCACTGCACCAGAACTTCCCATTAATAATC  
TTACTCATGTTACTATTACCATATATAGTATTTTCGTCACTGAAGACTTTATTTCAGAAAAGAAAAACCTCTTTTT  
AATTGGATGGAACTTTCTACCTGCTTGGCCTGGGGCCTCTGGAAGTCTGCTGTGAATTTGTATTCCCTTTTACC  
TCCTGGAAGGTGAAGTACCCCTTCATCCCTTTGTTACTAACCTCAGTGTATTGTGCAGTAGGCGTCACATATGCT  
TGGTTCAAACGTATGTTTTCAGTATTGATTGACTCTGCTATTGGCAAGACAAAGAAACAAT**TGA**ATAAAGGAACTG  
CTTAGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 744**

MAALTIATGTGNWFSALALGVTLLKCLLIPTYHSTDFEVHRNWLAITHSLPISQWYYEATSEWTLDYPPFFAWFE  
YILSHVAKYFDQEMLNVHNLNYSSSRITLLFQRFVIFMDVLFVYAVRECKCIDGKKVGKELTEKPKFILSVLLL  
WNFGLLIVDHIHFQYNGFLFGLMLLSIARLFQKRHMEGAFLEFAVLLHFKHIYLYVAPAYGVYLLRSYCFTANKPD  
GSIRWKSFSFVRVISLGLVFLVSALSGLPFLALNQLPQVFSRLFPFKRGLCHAYWAPNFWALYNALDKVLSVIG  
LKLKFLDPNNIPKASMTSGLVQQFQHTVLPSTPLATLICTLIAILPSIFCLWFKPQGPRGFLRCLTLCALSSFM  
FGWHVHEKAILLAILPMSLLSVGKAGDASIFLILTTTGHYSLFPLLFTAPELPIKILLMLLFTTIYSISSLKTLEFR  
KEKPLFNWMETFYLLGLGLEVCCEVFVPFTSWKVYPFIPLLLTSVYCAVGVTYAWFKLYVSVLIDSAIGKTKK  
Q

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**FIGURE 745**

CCCCCTCTTCTCCTCCTCAAGGGAAAGCTGCCCACTTCTAGCTGCCCTGCCATCCCCTTTAAAGGGCGACTTGCT  
CAGCGCCAAAACGCGGCTCCAGCCCTCTCCAGCCTCCGGCTCAGCCGGCTCATCAGTCGGTCCGCGCCTTGCCAGC  
TCTTCCAGAGGGACGCGCCCCGAGATGGAGAGCAAAGCCCTGCTCGTGCTGACTCTGGCCGTGTGGCTCCAGAGT  
CTGACCGCCTCCCGCGGAGGGGTGGCCGCCGCCGACCAAAAGAAGAGATTTTATCGACATCGAAAGTAAATTTGCC  
CTAAGGACCCCTGAAGACACAGCTGAGGACACTTGCCACCTCATTCCCAGAGTAGCAGAGTCCGTGGCTACCTGT  
CATTTCAATCACAGCAGCAAACCTTCATGGTGATCCATGGCTGGACGGTAACAGGAATGTATGAGAGTTGGGTG  
CCAAAACCTGTGGCCGCCCTGTACAAGAGAGAACCAGACTCCAATGTCAATTGTGGTGGACTGGCTGTACACGGGCT  
CAGGAGCATTACCCAGTGTCCGCGGGCTACACCAAACCTGGTGGGACAGGATGTGGCCCGGTTTTATCAACTGGATG  
GAGGAGGAGTTTAACTACCCCTCTGGACAATGTCCATCTCTTGGGATACAGCCTTGGAGCCCATGCTGCTGGCATT  
GCAGGAAGTCTGACCAATAAGAAAGTCAACAGAATTACTGGCCTCGATCCAGCTGGACCTAAGTTTGTAGTATGCA  
GAAGCCCCGAGTCGTCTTTCTCTGATGATGCAGATTTTGTAGACGTCTTACACACATTACCCAGAGGGTCCCCT  
GGTGAAGCATTGGAATCCAGAAACAGTTGGGCATGTTGACATTTACCCGAATGGAGGTACTTTTCAGCCAGGA  
TGTAACATTGGAGAAGCTATCCGCGTGATTGCAGAGAGAGGACTTGGAGATGTGGACCAGCTAGTGAAGTGCTCC  
CACGAGCGCTCCATTCACTCTCTTCATCGACTCTCTGTTGAATGAAGAAAATCCAAGTAAGGCCTACAGGTGCAGT  
TCCAAGGAAGCCTTTGAGAAAGGGCTCTGCTTGAGTTGTAGAAAGAACCCTGCAACAATCTGGGCTATGAGATC  
AATAAAGTCAGAGCCAAAAGAAGCAGCAAAATGTACCTGAAGACTCGTTCTCAGATGCCCTACAAAGTCTTCCAT  
TACCAAGTAAAGATTCAATTTTTCTGGGACTGAGAGTGAAACCCATACCAATCAGGCCTTTGAGATTTCTCTGTAT  
GGCACCGTGGCCGAGAGTGAGAACATCCCATTCACTCTGCCTGAAGTTCCACAAATAAGACCTACTCCTTCCTA  
ATTTACACAGAGGTAGATATTGGAGAACTACTCATGTTGAAGCTCAAATGGAAGAGTGATTACACTTTAGCTGG  
TCAGACTGGTGGAGCAGTCCCGGCTTCGCCATTGAGAAATCAGAGTAAAAGCAGGAGAGACTCAGAAAAAGGTG  
ATCTTCTGTTCTAGGGAGAAAGTGTCTCATTTGCAGAAAGGAAAGGCACCTGCGGTATTTGTGAAATGCCATGAC  
AAGTCTCTGAATAAGAAGTCAGGCTGAAACTGGGCGAATCTACAGAACAAAGAACGGCATGTGAATTCTGTGAAG  
AATGAAGTGGAGGAAGTAACTTTTACAAAACATACCCAGTGTTTGGGGTGTTTCAAAAGTGGATTTTCTGAATA  
TTAATCCCAGCCCTACCTTTGTTAGTTATTTTAGGAGACAGTCTCAAGCACTAAAAAGTGGCTAATTCAATTTAT  
GGGGTATAGTGGCCAAATAGCACATCCTCCAACGTTAAAAAGACAGTGGATCATGAAAAGTGTGTTTTGTCTTT  
GAGAAAAGAAATAATTGTTTGAGCGCAGAGTAAAAATAAGGCTCCTTCATGTGGCGTATTGGGCCATAGCCTATAAT  
TGGTTAGAACCTCCTATTTTAATTGGAATCTGGATCTTTCGACTGAGGCCTTCTCAAACCTTTACTCTAAGTCT  
CCAAGAATACAGAAAATGCTTTTTCCGCGGCACGAATCAGACTCATCTACACAGCAGTATGAATGATGTTTTAGAA  
TGATTCCCTCTTGCTATTGGAATGTGGTCCAGACGTCAACCAGGAACATGTAACCTGGAGAGGGACGAAGAAAGG  
GTCTGATAAACACAGAGGTTTTAAACAGTCCCTACCATTGCCCTGCATCATGACAAAGTTACAAATTCAAGGAGA  
TATAAAATCTAGATCAATTAATTCTTAATAGGCTTTATCGTTTATTGCTTAATCCCTCTCTCCCCCTTCTTTTT  
GTCTCAAGATTATATTATAAATGTTCTCTGGGTAGGTGTTGAAAATGAGCCTGTAATCCTCAGCTGACACATA  
ATTTGAATGGTGCAGAAAAAAAAGATACCGTAATTTTATTATTAGATTCTCAAATGATTTTCATCAATTTAA  
AATCATTCAATATCTGACAGTTACTCTTCAGTTTATAGGCTTACCTTGGTCATGCTTCAGTTGTACTTCCAGTGCG  
TCTCTTTTGTTCCTGGCTTTGACATGAAAAGATAGGTTTGAGTTCAAATTTTGCATTGTGTGAGCTTCTACAGAT  
TTTAGACAAGGACCGTTTTTACTAAGTAAAAGGGTGGAGAGGTTCCCTGGGGTGGATTCCCTAAGCAGTGCTTGTA  
ACCATCGCGTGCAATGAGCCAGATGGAGTACCATGAGGGTTGTTATTTGTTGTTTTTAACAATAATCAAGAGTG  
AGTGAACAATAATTTATAAACTAGATCTCCTATTTTTCAGAATGCTCTTCTACGTATAAATATGAAATGATAAAG  
ATGTCAAATATCTCAGAGGCTATAGCTGGGAACCCGACTGTGAAAGTATGTGATATCTGAACACATACTAGAAAG  
CTCTGCATGTGTGTTGTCCTTCAGCATAATTCGGAAGGGAAAACAGTCGATCAAGGGATGTATTGGAACATGTCCG  
GAGTAGAAAATTGTTCTGATGTGCCAGAACTTCGACCCCTTCTCTGAGAGAGATGATCGTGCCTATAAATAGTAG  
GACCAATGTTGTGATTAACATCATCAGGCTTGGAAATGAATTCCTCTCTAAAAATAAAATGATGTATGATTTGTTGT  
TGGCATCCCCCTTTATTAATTCATTAAATTTCTGGATTGGGTTGTGACCCAGGGTGCATTAACTTAAAAGATTCA  
CTAAAGCAGCACATAGCACTGGGAACCTCTGGCTCCGAAAAACCTTTGTTATATATATCAAGGATGTTCTGGCTTTA  
CATTTTATTTATTAGCTGTAAATACATGTGTGGATGTGTAAATGGAGCTTGTACATATTGGAAAGGTCATTGTGG  
CTATCTGCATTTATAAATGTGTGGTGCTAACTGTATGTGCTTTTATCAGTGATGGTCTCACAGAGCCAACTCACT  
CTTATGAAATGGGCTTTAACAAAACAAGAAAGAAACGTACTTAACTGTGTGAAGAAATGGAATCAGCTTTTAAATA  
AAATTGACAACATTTTATTACCAC

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**FIGURE 746**

MESKALLVLT LAVWLQSLTASRGVAAADQRRDFIDIESKFALRTPEDTAEDTCHLIPGVAESVATCHFNHSSKT  
FMVIHGWTVTGMYESWVPKLVAALYKREPDSNVIVVDWLSRAQEHYPVSAGYTKLVGQDVARFINWMEEEFNYPL  
DNVHLLGYSLGAHAAGIAGSLTNKKVNRIITGLDPAGPNFEYAEAPSRLSPDDADFVDVLHTFTRGSPGRSIGIQK  
PVGHVDIYPNGGTFQPGCNIGEAIRVIAERGLGDVDQLVKCSHERSIHLFIDSLLNEENPSKAYRCSSKEAFEKG  
LCLSCRKNRCNNLGYEINKVRAKRSSKMYLKTRSQMPYKVFHYQVKIHFSGTESETHNQAFEISLYGTVAESEN  
IPFTLPEVSTNKTYSFLLIYTEVDIGELLMLKLKWKSDSYFSWSDWWSSPGFAIQKIRVKAGETQKKVIFCSREKV  
SHLQKGKAPAVFVKCHDKSLNKKSG

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**FIGURE 747**

GGCGCCGACCCATGCTGGCTGGGAACGTGTCTCCCGGTGACGCAGCCCCGGGTGGGGAACGTGGTGCGGCGGGCGG  
CGGCGGCGGGCGACTGTACGCGCCTCCGCCGCCCGGAGAGGACGCGCCGTGCAGCGGCTGAGTGGCGGCGGGCGGC  
GACGGCAAACCCGGAGCTGCCGGCCGGCGCGGGGAGGAGACGCGGGTGCGGTCTAGGAAACGGAGCTGCGGGC  
GGAGGCTCCATGTTGGGAAGCGGCGCCGTTTCGTGCTTGTTAGCGGGAATCCGGGAGCCGCGGGGTGAGCTGGCGG  
GGGCCGGGCCCTAAGTGAAG**ATGG**GAGGCCCGCTGCGGCCGTGCCGCGGACATCCTGAGGCGGAACCCGCGAGCAGG  
ACTACGAACCTCGTCCAGAGGGTCGGCAGCGGCACCTACGGGGACGTCTATAAGGCCAGAAATGTACACACAGGAG  
AGCTGGCTGCAGTAAAAATCATTAAATTGGAGCCTGGAGATGATTTTTCTTTGATTCAACAAGAAATATTTATGG  
TTAAAGAATGTAAACATTGTAAACATCGTTGCCTACTTTGGGAGTTATCTTAGTCGGGAAAACTATGGATTTGTA  
TGGAATACTGTGGTGGCGGATCATTCAAGATATTTACCATGTTACTGGACCATTATCAGAATTGCAATAGCCT  
ATGTATGCAGAGAAACCTTACAGGGTCTTGCCATTTGCATACTAAAGGCAAAATGCATAGAGATATCAAAGGTG  
CTAATATTTTTATTGACAGACCATGGCGATGTAAATTAGCTGACTTTGGTGTGGCTGCAAAAATAACAGCTACCA  
TTGCAAAACGAAATCTTTTATTGGCACCCCTTACTGGATGGCCCCAGAAGTTGCAGCAGTAGAGAAGAATGGTG  
GCTACAACCAACTCTGTGATATCTGGGCAGTAGGAATAACAGCAATTGAACTTGGAGAAGTTTACGCCACCTATGT  
TTGATCTCCACCCAATGAGGGCTCTCTTCTTAATGTCAAAAAGTAATTTTTCAGCCTCCAAAATAAAGGACAAAA  
CAAAATGGTCATCAACATTCCATAATTTTGTCAAAAATAGCACTAACCAAAAACCCAAAAAAGACCAACTGCTG  
AAAGACTTCTGACTCACACTTTTGTGACAGCCAGGTCTCTCTAGAGCCCTAGCAGTTGAACTGTTAGACAAAG  
TGAACAATCCAGATAACCACGCACATTACACTGAAGCAGATGACGATGACTTTGAGCCCCATGCAATCATTCGTC  
ATACCATTAGATCTACAAACAGGAATGCCAGAGCTGAACGGACAGCTTCAGAAATAAATTTTGACAAATTACAAT  
TTGAACCTCCTCTGAGAAAAGAAACAGAAGCACGAGATGAAATGGGATTGTCATCAGACCCAAATTTTCATGTTAC  
AGTGGAATCCTTTTGTGATGGTGCAAATACTGGCAAATCAACCTCAAAACGTGCAATACCACCTCCCCTACCTC  
CTAAGCCAAGGATAAGCAGTTACCCTGAAGACAACCTTCCGGATGAAGAAAAGCATCAACCATAAAAAATTGTC  
CTGATTCAGAAAGCAGAGCTCCCCAAATTTCTCAGAAGACAGAGTAGCCCAAGTTGTGGGCTGTGGCAGAGACTT  
CTTCTATTGGAAATGGTGTATTTTCAAACTGATGAGTGAAATACAGAAGGATCAGCACAAGCACACAGT  
TACCACGAAAAAAGGACAAACGAGACTTCCCTAAACCAGCCATCAATGGCCTTCCACCCACCCCAAAAGTTCTGA  
TGGGAGCATGCTTTTCAAAAGTTTGTGATGGCTGTCTTTGAAAATTAATTGTGCAACATCCTGGATACATCCTG  
ATACAAAAGATCAGTACATTATTTTTGGAAGTGAAGATGGTATTTACACACTGAATCTCAATGAGCTACATGAGG  
CAACGATGGAACAGTTATTTCCACGGAAGTGACTTGGCTGTATGTTATCAATAATACTTTAATGTCATTATCAG  
AAGGAAAAACCTTTCAGCTCTACTCTCACAATCTTATAGCTTTGTTTGAACATGCCAAAAAACCAGGATTAGCTG  
CCCATATTCAAACCTCACAGGTTTCCAGACCGAATACTACCAAGAAAATTCGCTTTAACAACAAAGATTCTTGATA  
CAAAAGGCTGCCACAAATGTTGCATAGTCAGAAACCTTACACGGGACATAAATACCTCTGTGGAGCTTTACAGT  
CTGGAATTGTTTTACTTCAGTGGTATGAGCCAATGCAGAAATTCATGTTGATAAAGCACTTTGATTTTCTTTGC  
CAAGTCCCTTTGAATGTTTTTGAATGCTGGTGATACCTGAACAGGAATACCCTATGGTCTGTGTAGCTATTAGCA  
AAGGCACTGAATCGAATCAGGTAGTTTCAAGTTTGGAGACAATCAATTTGAACTCTGCATCTTCATGGTTTACAGAAA  
TTGGTGCAGGCAGCCAGCAGTTAGATTCCATTATGTAACACAGTTGGAGAGAGATACCGTTTTAGTGTGTTAG  
ACAAATTTGTGAAAATTGTAAATCTACAAGGAAAATTAATAATCAAGTAAGAAACTGGCCTCTGAGTTAAGTTTG  
ATTTTCGCAATTGAATCTGTAGTATGCCTTCAAGACAGTGTGTTGGCTTTCTGGAAACATGGGATGCAGGGTAAAA  
GCTTCAAGTCAGATGAGGTTACCCAGGAGATTTAGATGAAACAAGAGTTTTCCGCTTATTAGGATCAGACAGGG  
TTGTCGTTTTGGAAAGTAGGCCAACAGAAAATCCTACTGCACACAGCAATCTCTACATCTTGGCTGGACATGAAA  
ATAGTTACT**TAA**GCAACAGAACTGATCTCAAATGACAGGAAAATGAATATACTCCATTGAAAGGAAAAATAAGGA  
AATTCAATACAACTGCACTATGATTTGCTTTAACTATTATGGGTTATATTGCAAATGATCTGTACTTTAGGGTA

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**FIGURE 748**

MEAPLRPAADILRRNPQQDYELVQRVGSGTYGDVYKARNVHTGELA AVKI IKLEPGDDFSLIQQEIFMVKECKHC  
NIVAYFGSYLSREKLWICMEYCGGSLQDIYHVTGPLSELQIAYVCRET LQGLAYLHTKGKMHRDIKGANILLTD  
HGDVKLADFGVAAKITATI AKRKSFIGTPYWMAPEVAAVEKNGGYNQLCDIWAVGITAI ELGELQPPMFDLHPMR  
ALFLMSKSNFQPPKLKDKTKWSSTFHNFKIALTKNPKKRPTAERLLTHTFVAQPGLSRALAVELLDKVNNPDNH  
AHYTEADDDDFEPHAIIRHTIRSTNRNARAERTASEINFDKLQFEPPLRKETE ARDEMGLSSDPNFMLQWNPFDV  
GANTGKSTSKRAIPPLPPKPRISSYPEDNFPDEEKASTIKHCPDSESRAPQILRRQSSPSCGPVAETSSIGNGD  
GISKLMSENTEGSAQAPQLPRKKDKRDFPKPAINGLPPTPKVLMGACFSKVFDGCPLKINCATSWIHPD TKDQYI  
IFGTEDGIYTLNLNELHEATMEQLFPRKCTWLYVINNTLMSLSEGKTFQLYSHNLIALFEHAKKPGLA AHIQTHR  
FPDRILPRKFALT TTKIPDTKGCHKCCIVRNPYTGHKYL CGALQSGIVLLQWYEPMQKFMLIKHFD FPLPSP LNVE  
EMLVIPEQEYPMVCVAISKGTESNQVVQFETINLNSASSWFTEIGAGSQQLDSIHVTQLERD TVLVCLDKFVKIV  
NLQGKLKSSKKLASELSFDFRIESVVCLQDSVLAFWKHGMQGKSFKSDEVTQEISDETRVFRLLGSDRVVLESR  
PTENPTAHSNLYILAGHENSY

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**FIGURE 749**

CACCTGCTGCCGCCCGCGCCATGGCTGGCAAAGCACACAGGCTGAGCGCTGAGGAGAGGGACCAGCTGCTGCCAA  
ACCTGAGGGCTGTGGGGTGGAAATGAGCTGGAAGGCCGTGATGCCATCTTCAAGCAGTTTCATTTCAAAGACTTCA  
ACAGGGCCTTTGGGTTTCATGACAAGAGTGGCCCTGCAGGCTGAGAAACTGGACCACCATCCTGAATGGTTTAAACG  
TGTACAACAAGGTCCACATCACGCTGAGCACCCATGAGTGTGCCGGCCTTTCAGAACGGGACATAAACCTGGCCA  
GCTTCATCGAACAAGTAGCAGTGTCCATGACATAGACCCTGCCCTTCCTCTTTGAATTCTTCCGGGGGAAGGGGT  
GACTGAACTGGGAGTCCAGGGAGGGAGCTGAGGAGCCCTTACCCTCCCACCACTCCCCTCCCAAGACCCAGCCGC  
CGCCGTTGAGGGCTGAGTCCTTGCTGTGGGATGTGCCAGTGTCCCCACCAACACCAGGAATTTAGACCTTTTCCC  
TGCACCACTCTCTTCATCCTGGGGGCTCTGTTACACTAATTTGAATAAACTCTCCCCTTTCTTTGCAACTTCCCA  
GCAACAATAATGATTTTCTTGCCA

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**FIGURE 750**

MAGKAHRLSAEERDQLLPNLRAVGWNELEGRDAIFKQFHFKDFNRAFGFMTRVALQAEKLDHHPWFNVYNKVHI  
TLSTHECAGLSERDINLASFIEQVAVSMT



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**FIGURE 751**

TGCCGCAGCCCCCGCCCGCCGCAGAGCTTTTGAAAGGCGGCGGGAGGCGGCGAGCGCC**ATG**GCCAGTCCGGGCT  
GCCTGCTGTGCGTGCTGGGCCTGCTACTCTGCGGGGCGGCGAGCCTCGAGCTGTCTAGACCCACGGCGACACCG  
CCAAGAAGCCCATCATCGGAATATTAATGCAAAAATGCCGTAATAAAGTCATGAAAACTATGGAAGATACTATA  
TTGCTGCGTCCTATGTAAAGTACTTTGGAGTCTGCAGGTGCGAGAGTTGTACCAGTAAGGCTGGATCTTACAGAGA  
AAGACTATGAAATACTTTTCAAATCTATTAATGGAATCCTTTTCCCTGGAGGAAGTGTTGACCTCAGACGCTCAG  
ATTATGCTAAAGTGGCCAAAATATTTTATAACTTGTCCATACAGAGTTTTGATGATGGAGACTATTTTCCTGTGT  
GGGGCACATGCCTTGGAATTTGAAGAGCTTTCACTGCTGATTAGTGGAGAGTGCTTATTAAGTCCACAGATACTG  
TTGACGTGGCAATGCCGCTGAACCTTCACTGGAGGTCAATTGCACAGCAGAATGTTCCAGAATTTTCCTACTGAGT  
TGTTGCTGTCTATTAGCAGTAGAACCTCTGACTGCCAATTTCCATAAGTGGAGCCTCTCCGTGAAGAATTTTACAA  
TGAATGAAAAGTTAAAGAAGTTTTTCAATGTCTTAACTACAAATACAGATGGCAAGATTGAGTTTATTTCAACAA  
TGGAAGGATATAAGTATCCAGTATATGGTGTCCAGTGGCATCCAGAGAAAGCACCTTATGAGTGGAAGAATTTGG  
ATGGCATTTCCTCATGCACCTAATGCTGTGAAAACCGCATTTTATTTAGCAGAGTTTTTGTTAATGAAGCTCGGA  
AAAACAACCATCATTTTAAATCTGAATCTGAAGAGGAGAAAGCATTGATTTATCAGTTCAGTCCAATTTATACTG  
GAAATATTTCTTCATTTTCAGCAATGTTACATATTTGAT**TGA**AAGTCTTCAATTTGTTAACAGAGCAAATTTGAAT  
AATTCCATGATTAAACTGTTAGAATAACTTGCTACTCATGGCAAGATTAGGAAGTCACAGATTCTTTTCTATAAT  
GTGCCTGGCTCTGATTCTTCATTATGTATGTGACTATTTATATAACATTAGATAATTAATAGTGAGACATAAAT  
AGAGTGCTTTTTTCATGAAAAGCCTTCTTATATCTGAAGATTGAAAAATAAATTTACTGAAATACAAAAAAAAA  
AAAAA

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**FIGURE 752**

MASPGCLLCVLGLLLLCGAASLELSRPHGDTAKKPIIGILMQKCRNKVMKNYGRYYIAASYVKYLESAGARVVPVR  
LDLTEKDYEILFKSINGILFPGGSVDLRRSDYAKVAKIFYNLSIQSFDDGDYFPVWGTCLGFEELSLLISGECLL  
TATDTVDVAMPLNFTGGQLHSRMFQNFPTLLLLSLAVEPLTANFHKWSLSVKNFTMNEKLKKFFNVLTNTDGI  
EFISTMEGYKYPVYGVQWHPEKAPYEWKNLDGISHAPNAVKTAFYLAEFFVNEARKNNHHFKSESEEEKALIYQF  
SPIYTGNISSFQQCYIFD

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**FIGURE 753**

GAATTCCAAC**TATG**GAGACCCAAATGTCTCAGAATGTATGTCCCAGAAACCTGTGGCTGCTTCAACCATTTGACAG  
TTTTGCTGCTGCTGGCTTCTGCAGACAGTCAAGCTGCAGCTCCCCAAAGGCTGTGCTGAAACTTGAGCCCCCGT  
GGATCAACGTGCTCCAGGAGGACTCTGTGACTCTGACATGCCAGGGGGCTCGCAGCCCTGAGAGCGACTCCATTC  
AGTGGTTCCACAATGGGAATCTCATTCCCACCCACACGCAGCCCAGCTACAGGTTCAAGGCCAACAAACAATGACA  
GCGGGGAGTACACGTGCCAGACTGGCCAGACCAGCCTCAGCGACCCTGTGCATCTGACTGTGCTTTCCGAATGGC  
TGGTGCTCCAGACCCCTCACCTGGAGTTCCAGGAGGGAGAAACCATCATGCTGAGGTGCCACAGCTGGAAGGACA  
AGCCTCTGGTCAAGGTCACATTCTTCCAGAATGGAAAAATCCCAGAAATTCTCCCGTTTGGATCCACCTTCTCCA  
TCCCACAAGCAAACCACAGTCACAGTGGTGATTACCACTGCACAGGAAACATAGGCTACACGCTGTTCTCATCCA  
AGCCTGTGACCATCACTGTCCAAGTGCCAGCATGGGCAGCTCTTCACCAATGGGGATCATTGTGGCTGTGGTCA  
TTGCGACTGCTGTAGCAGCCATTGTTGCTGCTGTAGTGGCCTTGATCTACTGCAGGAAAAAGCGGATTTAGCCA  
ATTCCACTGATCCTGTGAAGGCTGCCCAATTTGAGCCACCTGGACGTCAAATGATTGCCATCAGAAAGAGACAAC  
TTGAAGAAACCAACAATGACTATGAAACAGCTGACGGCGGCTACATGACTCTGAACCCAGGGGCACCTACTGACG  
ATGATAAAAAACATCTACCTGACTCTTCTCCCAACGACCATGTCAACAGTAATAAC**TAA**AGAGTAACGTTATGCC  
ATGTGGTCATACTCTCAGCTTGCTGAGTGGATGACAAAAAGAGGGGAATTGTTAAAGGAAAATTTAAATGGAGAC  
TGAAAAATCCTGAGCAAACAAAACCACCTGGCCCTTAGAAATAGCTTTAACTTTGCTTAACTACAAACACAAG  
CAAACTTCACGGGGTCATACTACATACAAGCATAAGCAAACTTAACTTGGATCATTTCTGGTAAATGCTTATG  
TTAGAAATAAGACAACCCAGCCAATCACAAGCAGCCTACTAACATATAATTAGGTGACTAGGGACTTTCTAAGA  
AGATACCTACCCCCAAAAACAATTATGTAATTGAAAACCAACCGATTGCCTTTATTTTGCTTCCACATTTTCCC  
AATAAATACTTGCCTGTGACATTTTGCCACTGGAACACTAACTTCATGAATTGCGCCTCAGATTTTCTCTTAA  
CATCTTTTTTTTTTTTTTGACAGAGTCTCAATCTGTTACCCAGGCTGGAGTGCAGTGGTGCTATCTTGGCTCACTGC  
AAACCCGCCTCCCAGGTTTAAAGCGATTCTCATGCCTCAGCCTCCAGTAGCTGGGATTAGAGGCATGTGCCATCA  
TACCCAGCTAATTTTTTGATTTTTTATTTTTTTTTTTTAGTAGAGACAGGGTTTTCGCAATGTTGGCCAGGCCGAT  
CTCGAACTTCTGGCCTCTAGCGATCTGCCCGCTCGGCCCTCCAAAGTGCTGGGATGACCAGCATCAGCCCCAAT  
GTCCAGCCTCTTTAACATCTTCTTTCTATGCCCTCTCTGTGGATCCCTACTGCTGGTTTTCTGCCTTCTCCATGC  
TGAGAACAAAATCACCTATTTACTGCTTATGCAGTCGGAAGCTCCAGAAGAACAAGAGCCCAATTACCAGAACC  
ACATTAAGTCTCCATTGTTTTGCCTTGGGATTTGAGAAGAGAATTAGAGAGGTGAGGATCTGGTATTTCTCTGGAC  
TAAATTCCCCTTGGGGAAGACGAAGGGATGCTGCAGTTCCAAAAGAGAAGGACTCTTCCAGAGTCATCTACCTGA  
GTCCCAAAGCTCCCTGTCTGAAAGCCACAGACAATATGGTCCCAAATGACTGACTGCACCTTCTGTGCCTCAGC  
CGTTCTTGACATCAAGAATCTTCTGTTCCACATCCACACAGCCAATACAATTAGTCAAACCACTGTTATTAAACAG  
ATGTAGCAACATGAAAGACGCTATGTTACAGGTTACATGAGAGCAATCATGTAAGTCTATATGACTTCAGAAATG  
TTAAATAGACTAACCTCTAACAACAAATTTAAAGTGCGGAATTC

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**FIGURE 754**

METQMSQNVCPRNLWLLQPLTVLLLLASADSQAAAPPKAVLKLEPPWINVLQEDSVTLTCQGARSPESDSIQWFH  
NGNLIPHTHTQPSYRFKANNNDSGEYTCQTGQTSLSDPVHLTVLSEWLVLQTPHLEFQEGETIMLRCHSWKDKPLV  
KVTFFQNGKSQKFSRLDPTFSIPQANHSHSGDYHCTGNIGYTLFSSKPVTITVQVPSMGSSSPMGIIIVAVVIATA  
VAAIIVAAVVALIYCRKKRISANSTDPVKAAQFEPPGRQMIAIRKRQLEETNNDYETADGGYMTLNPRAPTDDDKN  
IYLTLPNDHVNSNN

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**FIGURE 755**

GGGAAG**ATG**GCGAAGGTCTCAGAGCTTTACGATGTCACCTTGGGAAGAAATGAGAGATAAAATGAGAAAATGGAGA  
GAAGAAAAC**T**CAAGAAATAGTGAGCAAATTGTGGAAGTTGGAGAAGAATTAATTAATGAATATGCTTCTAAGCTG  
GGAGATGATATTTGGATCATATATGAACAGGTGATGATTGCAGCACTAGACTATGGTCGGGATGACTTGGCATTG  
TTTTGTCTTCAAGAGCTGAGAAGACAGTTCCTTGGCAGTCACAGAGTCAAGCGATTAACAGGCATGAGATTTGAA  
GCCATGGAAAGATATGATGATGCTATACAGCTATATGATAGGATTTTACAAGAAGATCCAAC**T**AACACTGCTGCA  
AGAAAGCGTAAGATTGCCATTCGAAAAGCCCAGGGGAAAAATGTGGAGGCCATTCGGGAGCTGAATGAGTATCTG  
GAACAATTTGTTGGAGACCAAGAAGCCTGGCATGAAC**T**TGCAGAACTTTACATCAATGAACATGACTATGCAAAA  
GCAGCCTTTTGT**T**TAGAGGA**A**CTAATGATGACTAATCCACACAACC**A**CTTATACTGTCAGCAGTATGCTGAAGTT  
AAGTATACCCAAGGTGGACTTGA**A**ACCTCGAACTTTCAAGAAAGTATTTTGCACAGGCATTGA**A**ACTGAACAAC  
AGAAATATGAGAGCTTTGT**T**TGGACTTTATATGTCGGCAAGTCATATTGCTTCTAATCCAAAAGCAAGTGCAAAA  
ACGAAAAAGGACAACATGA**A**ATATGCTAGTTGGGCAGCTAGTCAAATAAACAGAGCTTATCAGTTTGCAGGTCGA  
AGTAAGAAGGAAACCAAATATTCTCTTAAGGCTGTCGAAGACATGTTGGAAACATTGCAGATCACCCAGTCT**TAA**

GGTTTCAAAA**A**CTCTTTGACATTAGATTT**C**ACA**A**CTGCACAATTGA**A**CTTATTGGCCTGTAACTTATTTACTAAA  
TGCTCAGTGCTATTTATATACTACAGTAATTTTCTGTTAAGAAGGCAGTTGTAAAGAATGTGTTTATATAAACCT  
AAAAATGCCTTTTACTGCTAAGTGGGGAGATGGGGGAAATCCATGGAAGAGAGATTTAAGACTTATTGATTGTAC  
ATCAGTCTCTTCATATCACATATACATGTATATATATAAA**A**CTCTAATGTAGTATAACCTTGTTAAATAAACCAT  
GATGATTTATTAACTTGC

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**FIGURE 756**

MAKVSELYDVTWEEMRDKMRKWRENSRNSEQIVEVGEELINEYASKLGDDIWIIYEQVMIAALDYGRDDLALFC  
LQELRRQFPGSHRVKRLTGMRFEAMERYDDAIQLYDRILQEDPTNTAARKRKIAIRKAQGKNVEAIRELNEYLEQ  
FVG DQEAWHELAEELYINEHDYAKAAFCLEELMMTNPHNHLYCQQYAEVKYTQGGLENLELSRKYFAQALKLNNRN  
MRALFGLYMSASHIASNPKASAKTKKDNMKYASWAASQINRAYQFAGRSKKETKYSLKAVEDMLETITQS

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**FIGURE 757**

GAAGCTGGACTGCAGCTGGTTTCAGGAACTTCTCTTGACGAGAAGAGAGACCAAGGAGGCCAAGCAGGGGCTGGG  
CCAGAGGTGCCAACATGGGGAACTGAGGCTCGGCTCGGAAAGGTGAAGTAACTTGTCCAAGATCACAAAGCTGG  
TGAACATCAAGTTGGTGCT**ATGG**CAAGGCTGGGAACTGCAGCCTGACTTGGGCTGCCCTGATCATCCTGCTGCT  
CCCCGGAAGTCTGGAGGAGTGCGGGCACATCAGTGTCTCAGCCCCCATCGTCCACCTGGGGGATCCCATCACAGC  
CTCCTGCATCATCAAGCAGAACTGCAGCCATCTGGACCCGGAGCCACAGATTCTGTGGAGACTGGGAGCAGAGCT  
TCAGCCCCGGGGCAGGCAGCAGCGTCTGTCTGATGGGACCCAGGAATCTATCATCACCTGCCCCACCTCAACCA  
CACTCAGGCCTTTCTCTCTCTGCTGCCTGAAGTGGGGCAACAGCCTGCAGATCCTGGACCAGGTTGAGCTGCGCGC  
AGGCTACCCTCCAGCCATACCCCAACAACCTCTCCTGCCTCATGAACCTCACAACCAGCAGCCTCATCTGCCAGTG  
GGAGCCAGGACCTGAGACCCACCTACCCACCAGCTTCACTCTGAAGAGTTTCAAGAGCCGGGGCAACTGTCAGAC  
CCAAGGGGACTCCATCCTGGACTGCGTGCCTCAAGGACGGGCAGAGCCACTGCTGCATCCCACGCAAACACCTGCT  
GTTGTACCAGAATATGGGCATCTGGGTGCAGGCAGAGAATGCGCTGGGGACCAGCATGTCCCCACAACCTGTGTCT  
TGATCCCATGGATGTTGTGAACTGGAGCCCCCATGCTGCGGACCATGGACCCAGCCCTGAAGCGGCCCTCC  
CCAGGCAGGCTGCCTACAGCTGTGCTGGGAGCCATGGCAGCCAGGCCTGCACATAAATCAGAAGTGTGAGCTGCG  
CCACAAGCCGCAGCGTGGAGAAGCCAGCTGGGCACCTGGTGGGGCCCCCTCCCCTTGGAGGCCCTTCAGTATGAGCT  
CTGCGGGCTCCTCCCAGCCACGGCCTACACCCTGCAGATACGCTGCATCCGCTGGCCCCCTGCCTGGCCACTGGAG  
CGACTGGAGCCCCAGCCTGGAGCTGAGAACTACCGAACGGGGCCCCCACTGTCAGACTGGACACATGGTGGCGGCA  
GAGGCAGCTGGACCCAGGACAGTGCAGCTGTTCTGGAAGCCAGTGGCCCTGGAGGAAGACAGCGGACGGATCCA  
AGGTTATGTGGTTTCTTGGAGACCCTCAGGCCAGGCTGGGGCCATCCTGCCCTCTGCAACACCACAGAGCTCAG  
CTGCACCTTCCACCTGCCTTCAGAAGCCCAGGAGGTGGCCCTTGTGGCCTATAACTCAGCCGGGACCTCTCGCCC  
CACCCCGTGGTCTTCTCAGAAAGCAGAGGCCAGCTCTGACCAGACTCCATGCCATGGCCCCGAGACCCTCACAG  
CCTCTGGGTAGGCTGGGAGCCCCCAATCCATGGCCTCAGGGCTATGTGATTGAGTGGGGCTGGGGCCCCCCCAG  
CGCGAGCAATAGCAACAAGACCTGGAGGATGGAACAGAATGGGAGAGCCACGGGGTTTCTGCTGAAGGAGAACAT  
CAGGCCCTTTCAGCTCTATGAGATCATCGTGAATCCCTTGTACCAGGACACCATGGGACCCTCCCAGCATGTCTA  
TGCCTACTCTCAAGAAATGGCTCCCTCCCATGCCCCAGAGCTGCATCTAAAGCACATTGGCAAGACCTGGGCACA  
GCTGGAGTGGGTGCCTGAGCCCCCTGAGCTGGGGGAAGAGCCCCCTTACCCACTACACCATCTTCTGGACCAACGC  
TCAGAACCAGTCCTTCTCCGCCATCCTGAATGCCTCCTCCCGTGGCTTGTGCTCCTCATGGCCTGGAGCCCGCCAG  
TCTGTATCACATCCACCTCATGGCTGCCAGCCAGGCTGGGGCCACCAACAGTACAGTCCTCACCTGATGACCTT  
GACCCAGAGGGGTGCGAGCTACACATCATCCTGGGCCTGTTGCGCCTCCTGCTGTTGCTCACCTGCCTCTGTGG  
AACTGCCTGGCTCTGTTGCAGCCCCAACAGGAAGAATCCCCTCTGGCCAAGTGTCCAGACCCAGCTCACAGCAG  
CCTGGGCTCCTGGGTGCCACAATCATGGAGGAGGATGCCTTCCAGCTGCCCGGCCCTTGGCACGCCACCCATCAC  
CAAGCTCACAGTGTGCTGGAGGAGGATGAAAAGAAGCCGGTGCCCTGGGAGTCCATAACAGCTCAGAGACCTGTGG  
CCTCCCCACTCTGGTCCAGACCTATGTGCTCCAGGGGGACCCAAGAGCAGTTTCCACCCAGCCCCAATCCAGTC  
TGGCACCGATCAGGTCTTTATGGGCAGCTGCTGGGCAGCCCCACAAGCCCAGGGCCAGGGCACTATCTCCG  
CTGTGACTCCACTCAGCCCCCTTGGCGGGCCTCACCCCCAGCCCCAAGTCCTATGAGAACCTCTGGTTCCAGGC  
CAGCCCCCTGGGGACCCTGGTAACCCCAAGCCAGGAGGACGACTGTGTCTTTGGGCCACTGCTCAACTT  
CCCCCTCCTGCAGGGGATCCGGGTCCATGGGATGGAGGCGCTGGGGAGCTTCT**TAG**GGCTTCTGGGGTTCCCTTC  
TTGGGCCTGCCTCTTAAAGGCCTGAGCTAGCTGGAGAAGAGGGGAGGGTCCATAAGCCCATGACTAAAACTACC  
CCAGCCCAGGCTCTCACCATCTCCAGTACCAGCATCTCCCTCTCCTCCCAATCTCCATAGGCTGGGCCTCCAG  
GCGATCTGCATACTTTAAGGACCAGATCATGCTCCATCCAGCCCCACCCAATGGCCTTTTGTGCTTGTTCCTAT  
AACTTCAGTATTGTAAAC

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**FIGURE 758**

MARLGNC SLTWAALI I I L L L P G S L E E C G H I S V S A P I V H L G D P I T A S C I I K Q N C S H L D P E P Q I L W R L G A E L Q P G G R Q  
Q R L S D G T Q E S I I T L P H L N H T Q A F L S C C L N W G N S L Q I L D Q V E L R A G Y P P A I P H N L S C L M N L T T S S L I C Q W E P G P E T  
H L P T S F T L K S F K S R G N C Q T Q G D S I L D C V P K D G Q S H C C I P R K H L L L Y Q N M G I W V Q A E N A L G T S M S P Q L C L D P M D V V  
K L E P P M L R T M D P S P E A A P P Q A G C L Q L C W E P W Q P G L H I N Q K C E L R H K P Q R G E A S W A L V G P L P L E A L Q Y E L C G L L P A  
T A Y T L Q I R C I R W P L P G H W S D W S P S L E L R T T E R A P T V R L D T W W R Q R Q L D P R T V Q L F W K P V P L E E D S G R I Q G Y V V S W  
R P S G Q A G A I L P L C N T T E L S C T F H L P S E A Q E V A L V A Y N S A G T S R P T P V V F S E S R G P A L T R L H A M A R D P H S L W V G W E  
P P N P W P Q G Y V I E W G L G P P S A S N S N K T W R M E Q N G R A T G F L L K E N I R P F Q L Y E I I V T P L Y Q D T M G P S Q H V Y A Y S Q E M  
A P S H A P E L H L K H I G K T W A Q L E W V P E P P E L G K S P L T H Y T I F W T N A Q N Q S F S A I L N A S S R G F V L H G L E P A S L Y H I H L  
M A A S Q A G A T N S T V L T L M T L T P E G S E L H I I L G L F G L L L L L T C L C G T A W L C C S P N R K N P L W P S V P D P A H S S L G S W V P  
T I M E E D A F Q L P G L G T P P I T K L T V L E E D E K K P V P W E S H N S S E T C G L P T L V Q T Y V L Q G D P R A V S T Q P Q S Q S G T S D Q V  
L Y G Q L L G S P T S P G P G H Y L R C D S T Q P L L A G L T P S P K S Y E N L W F Q A S P L G T L V T P A P S Q E D D C V F G P L L N F P L L Q G I  
R V H G M E A L G S F



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**FIGURE 759**

GCTGACTCCAGTGTCCCGAGAGGCGCCGCTTCTTCCGCTTTCTCGTCAGGCTCCTGCAACCCCAGGCATGAACCA  
AGGTTTCTGAACTACTGGGCGGGAGCCAACGTCTCTTCTTTCTCCCGCTCTGGCGGAGGCTTTGTGCTGCGGGC  
TGGGCCCCAGGGTGTCCCCCATGGCGGGGCGCGGGTGGAGGTCGATGGCAGCATCATGGAAGGGGGCGGCCAGA  
TCCTGAGAGTCTCTACGGCCTTGAGCTGTCTCTAGGCCTCCCCTTGCGGGTGCAGAAGATCCGAGCCGGCCGGA  
GCACGCCAGGCCTGAGGCCTCAACATTTATCTGGACTGGAAATGATTGAGATTTGTGTGATGGGCAACTGGAGG  
GGGCAGAAATTGGCTCAACAGAAATAACCTTTACACCAGAGAAGATCAAAGGTGGAATCCACACAGCAGATACCA  
AGACAGCAGGGAGTGTGTGCCTCTTGATGCAGGTCTCAATGCCGTGTGTTCTCTTTGCTGCTTCTCCATCAGAAC  
TTCATTTGAAAGGTGGAACATAATGCTGAAATGGCACCACAGATCGATTATACAGTGATGGTCTTCAAGCCAATTG  
TTGAAAAATTTGGTTTCATATTTAATTGTGACATTAAACAAGGGGATATTACCCAAAAGGGGGTGGTGAAGTGA  
TTGTTTGAATGTCACCAGTTAAACAATTGAACCTATAAAATTTAACTGAGCGTGGCTGTGTGACTAAGATATATG  
GAAGAGCTTTCGTTGCTGGTGTGTTTGGCATTAAAGTAGCAAAAGATATGGCAGCGGCAGCAGTTAGATGCATCA  
GAAAGGAGATCCGGGATTTGTATGTTAACATCCAGCCTGTTCAAGAACCTAAAGACCAAGCATTTGGCAATGGAA  
ATGGAATAATAATTATTGCTGAGACCTCCACTGGCTGTTTGTGTTGCTGGATCATCGCTTGGTAAACGAGGTGTAA  
ATGCAGACAAAGTTGGAATTGAAGCTGCCGAAATGCTATTAGCAAATCTTAGACATGGTGGTACTGTGGATGAGT  
ATCTGCAAGACCAGCTGATTGTTTTTCATGGCATTAGCCAATGGAGTTTCCAGAATAAAAAACAGGACCAGTTACAC  
TCCATACGCAAACCGCGATACATTTTGCTGAACAAATAGCAAAGGCTAAATTTATTGTGAAGAAATCAGAAGATG  
AAGAAGACGCCGCTAAAGATACTTATATTATTGAATGCCAAGGAATTGGGATGACAAATCCAAATCTATAGAGTA  
TTTGCTCTTAAATGATACCTCATTGATATATTGCACTATTTTATAAATACTATAAAATAATGACTAGGAAGTAA  
CTTATTAAAGGCTATGACTTAAATTTGAAGATGAAGTACAGTGTCTAGGTTTGCTGAGAAGGCTTCATTAAATT  
AATCTCACTTTGAATATCTCTGAGAGATGGACAATGAAATATCAGTTGGTGGATATGTGTGATAGCTGATTTC  
ATATTGAAGTATTGAAATAAAATATTCTTTACACCTGAG

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**FIGURE 760**

MAGPRVEVDGSIMEGGGQILRVSTALSCLLGLPLRVQKIRAGRSTPGLRPQHLSGLEMIRDLC DGQLEGAEIGST  
EITFTPEKIKGGIHTADTKTAGSVCLLMQVSMPCVLF AASPSELHLKGGTNAEMAPQIDYTMVFKPIVEKFGFI  
FNCDIKTRGYYPKGGGEVIVRMSPVKQLNPINLTERGCVTKIYGRAFVAGVLPFKVAKDMAAAAVRCIRKEIRDL  
YVNIQPVQEPKDQAFGNNGNIIIIAETSTGCLFAGSSLGKRGVNADKVGIEAAEMLLANLRHG GTVDEYLDQQLI  
VFMALANGVSRIKTGPVTLHTQTAIHF AEQIAKAKFIVKKSEDEEDA AKDTYII ECQGIGMTNP NL

**FIGURE 761A**

[illegible]

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**FIGURE 761B**

ATAAATTTTAAACATTGTAAGCCAGTAGATTCTTTGGCTGGGTGGCAAATTTTGAGTCTTCTTG CATATTTGGCT  
CATGGGTTTCATAAATTGAGGCCAGAGACTCATTGTATATCCTTGATCAATTTTCTAATTAAAGGAAATAGCTTAT  
TGTTTAGTAAAATGGCCCTTGGTTGTGGGAAGAAAAGAGAATTATTTTAACTGAACGTTTTTGTGTTTTTTAAA  
TAAAGTAGCCATATGTAACGGGATTTTAAAAATATATACATTTTACAACATGGACTAGAAAAGGACCATTAGATC  
AGGGGTTGGCAAACATATGGCCACGAATCAAACCTGGCCTGCCACCTGTTTTTATACAACCTGTGAGCTAAGAAT  
GGTTTATATGTTTTCAAATGATTGGGCAGAAAATCAAAAAGAACAATATTTTCATGACACCTGAAAATTCTATG  
AAATTCAGATTTTCAGTGTCCATAAACAAAATGTTATTAGAGCATAGCCACACCCATTCATTTATGGTATTGTCTG  
GGACTGCTTTCTTGGCAGAGTTGAATAGTTGGGACAGGGACAGTATAGCCTGCAAAGCCTAAAAGATTTACTACT  
TGTCTCCTTAAAGAAAAAGTTTGCCAGCTCCTGATCTAGACCAAGAGGGAGATATTGACCTTACTTGCAATTTATC  
CGGCATTATTTCAACACCTCCTGTGAAGAAAGTACTTTTCTGGCATAGCTACCGTGAGTTCTCAGCAGGAACCTC  
CCAGCGATGATAATGTACATGAAATTAGCCACGTAACAAGAGTCTATTTGCCTTGAAAAACAATTATCCTTGAA  
CTTCTCCAGCTATGCAGGGATTCTCATTAAAGAGCTGATCTGCATCTGTTTATCCATTTTAGTAGCTTTTAAAT  
ATGATTTTATGTGAAGTGCCATTTCTTTATTCTACTAAAGAGAGACAGCAGAAATAAAGATCAGAAGCAAATGTG  
AGCAAATCTGTTTTACTGTAACTTCAATTATGAACTTGAAATTGTGCCACATGACTTTTTCTCTAAAACTGG  
ATCCTAGTGTTTTAAATTACCTGTGTGCAGCTATTTTAAATAGCATTTTACTTGAATAATATGTATGTTGTCATTG  
TTTCATGCTATACTTTGTGGGATAAACTTGGGAATGAGTGTGGTAAGAAATTTATAAAGTTTTGCTTTTAAAC  
GTGGACATAACTCATTTTTCTAGTTTTTGACAATTGTGTGTTTTAGTGTCTAGTCTGCAGAGAGCTGTGTGATTA  
ATAAACGTGGAATTAACAGAATTTCTCTCCCTGTAAAAAAGAAAAAAAAAACGAAA

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**FIGURE 762**

GRWLPAAATFPVQDPASGAALGMVADCGVREARAAVRAAYEAFCRWREVSAKERSSSLRKWYNLMIQNKDDLARI  
ITAESGKPLKEAHGEILYSAFFLEWFSEEARRVYGDIIYTPAKDRRGPGPQAAHRAWAAVITPWNFPSAMITRKV  
GAALAAGCTVVVKPAEDTPFSALALAELASQAGIPSGVYNVIPCSRKNAKEVGGEAICTDPLVSKISFTGSTTTGK  
ILLHHAANSVKRVSMELGGLAPFIVFDSANVDQAVAGAMASKFRNTGQTCVCSNQFLVQRGIHDAFVKAFAEAMK  
KNLRVGNGFEEGTTQGPLINEKAVEKVEKQVNDVSKGATVVTGGKRHQLGKNFFEPTLLCNVTQDMLCTHEETF  
GPLAPVIKFDTEEEAIAIANAADVGLAGYFYSQDPAQIWRVAEQLEVGMVGVNEGLISSVECPFGGVKQSGLGRE  
GSKYGIDEYLELKYVCYGGI

[illegible]

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**FIGURE 764**

MTGYTPDEKLRLQQLRELRRRWLKDQELSPREPVLPPQKMGPMEKFWNKFLENKSPWRKMVHGVIYKKSIFVFTHV  
LVPVWIIHYMKYHVSEKPYGIVEKKSRIFFPGDTILETGEVIPPMMKEFPDQHH

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**FIGURE 765**

TTTCCACATGTGAGGGGCTGAGGGGCTCAAGGAGGGGAGCATCTCCACTGGGTGGAGGCTGGGGGTCCCAGCAGG  
AAATGGTGAGACAAAGGGCGCTGGCTGGCAGGGAGACAGCACAGGAAGGTCCTAGAGCTTCCTCAGTGCAGCTGG  
ACTCTCCTGGAGACCTTCACACACCCTGATATCTGGGCCTTGCCCGACGAGGGTGCTTTCACTGGTCTGCACCAT  
GGCCCGAGGCCCTGGGATTTTGAACAGCTCCGCAGGTGAATGAAAGGTGAGGCCAGGCTGGGGAACCAACCGCATTA  
GAGCCCCGACCTGGTTTTTAGCCCCAGCCCCGCCACTGACTGGCTTTGTGAGTGCGGGCAAGTCACTCAGCCTCCC  
TAGGCCTCAGTGACTTCCCTGAAAGCAAGAATTCCACTTTCTTGCTGTTGTGATGGTGGTAAGGGAACGGGCCTG  
GCTCTGGCCCCCTGACGCAGGAAC**ATG**GAGCTGATCCAGGACACCTCCCGCCCGCCACTGGAGTACGTGAAGGGGG  
TCCCGCTCATCAAGTACTTTGCAGAGGCACTGGGGCCCCCTGCAGAGCTTCCAGGCCCGGCCTGATGACCTGCTCA  
TCAGCACCTACCCCAAGTCCGGCACCACCTGGGTGAGCCAGATTCTGGACATGATCTACCAGGGTGGTGACCTGG  
AGAAGTGTCAACGAGCTCCCATCTTCATGCGGGTGCCCTTCCTTGAGTTCAAAGCCCCAGGGATTCCCTCAGGGA  
TGGAGACTCTGAAAGACACACCGGCCCCACGACTCCTGAAGACACACCTGCCCCTGGCTCTGCTCCCCCAGACTC  
TGTTGGATCAGAAGGTCAAGGTGGTCTATGTTGCCCGCAACGCAAAGGATGTGGCAGTTTCTACTACCACTTCT  
ACCACATGGCCAAGGTGCACCCTGAGCCTGGGACCTGGGACAGCTTCCTGGAGAAGTTTATGGTGGGAGAAGTGT  
CCTACGGATCCTGGTACCAGCACGTGCAGGAGTGGTGGGAGCTGAGCCGCACCCACCCTGTTCTCTACCTCTTCT  
ATGAAGACATGAAGGAGAACCCCAAAAGGGAGATTCAAAAGATCCTGGAGTTTGTGGGGCACTCCCTGCCAGAGG  
AGACCGTGGACTTCATGGTTTACGACACGTCGTTCAAGGAGATGAAGAAGAACCCTATGACCAACTACACCACCG  
TCCCCCAGGAGTTTATGGACCACAGCATCTCCCCCTTCATGAGGAAAGGCATGGCTGGGGACTGGAAGACCACCT  
TCACCGTGGCGCAGAATGAGCGCTTCGATGCGGACTATGCGGAGAAGATGGCAGGCTGCAGCCTCAGCTTCCGCT  
CTGAGCTG**TGA**GAGGGGGCTCCTGGGGTCACTGCAGAGGGAGTGTGCGAATCAAACCTGACCAAGCGGCTCAAGAA  
TAAAAATATGAATTGAGGGCCTGGGACGGTAGGTCATGTCTGTAATCCCAGCAATTTGGAGGCTGAGGTGGGAGGA  
TCATTTGAGCCCAGGAGTTCGAGACCAACCTGGGCAACATAGTGAGATTCTGTTAAAAAATAAAAAATAAA  
ACCAATTTTT



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**FIGURE 766**

MELIQDTSRPPLEYVKGVPLIKYFAEALGPLQSFQARPDDLSTYPKSGTTWVSQILDMIYQGGDLEKCHRAPI  
FMRVPFLEFKAPGIPSGMETLKDTPAPRLLKTHLPLALLPQTLLDQKVKVYVARNAKDVAVSYYHFYHMAKVHP  
EPGTWDSFLEKFMVGEVSYGSWYQHVQEWELSRTHPVLVLYLFYEDMKENPKREIQKILEFVGHSLPEETVDFMVQ  
HTSFKEMKKNPMTNYTTVPQEFMDHSISPFRKGMAGDWKTTFTVAQNERFDADYAEKMAGCSLSFRSEL

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**FIGURE 767**

GACGGCGGTGGCGGCGTTCGGAGGCGCCTCCGGGGGACGGTGGCGGCTCCCGGCGGTGAGGCCGCGCCTGTCCGGG  
GATCGTCGAGGGACGGCGGGAGCTTGGGCCAGCGGCGGCGGCGGCTGGGACGCAGGCGGAGCCCCGCGCAGGCC  
CAAGGTCCCGGAGGCT**ATGG**CAGCGGCTACCATCGTGCACGACACGTCTGAGGCCGTGGAGCTCTGCCCTGCTTA  
CGGCTTGTACCTGAAGCCCATCACCAAGATGACCATCAGCGTGGCACTCCCGCAGCTGAAGCAGCCGGGGAAAGTC  
CATCTCCA**ACT**GGGAGGTGATGGAGAGGCTGAAGGGCATGGTGCAGAACCACCAGTTCTCCACGCTGCGTATTTTC  
CAAGAGCACCATGGACTTTCATCCGCTTCGAGGGGGAGGTGGAGAACAAGAGCCTGGTCAAGTCTTTTCTGGCCTG  
CCTGGACGGCAAGACCATCAAGCTCAGCGGCTTCTCCGACATCCTGAAGGTGCGCGCGGCCGAGTTCAGATCGA  
CTTCCCCACCCGCCACGACTGGGACTCCTTCTTCCGCGACGCCAAGGACATGAACGAGACCCTGCCGGGGGAGCG  
GCCGGACACCATCCACCTGGAGGGGCTGCCCTGCAAGTGGTTCGCCCTGAAGGAGTCGGGCTCCGAGAAGCCCAG  
CGAGGACGTCTGGTCAAGGTGTTTGAGAAGTTCGGGGAGATCCGGAATGTGGACATCCCCATGCTGGACCCCTA  
CCGGGAGGAGATGACGGGCCGCAACTTCCACACCTTCAGTTTCGGGGGGCACTTGAACCTCGAGGCCTATGTGCA  
GTACCGTGAGTACATGGGCTTCATCCAGGCCATGAGCGCCCTGCGCGGGATGAACTCATGTACAAGGGCGAGGA  
CGGCAAGGCCGTGGCCTGCAACATCAAGGTTTCTTTTGATTGACCAAACACCTGAGTGATGCCTCAATTAAGAA  
GCGGCAGCTGGAGAGGCAGAAGCTTCAGGAACTGGAGCAGCAAAGAGAAGAACAAGCGCAGAGAGAAGGAAGC  
GGAGGAGAGGCAGCGAGCGGAGGAAAGGAAACAAAAGGAGCTGGAAGAGCTGGAGCGAGAGAGGAAAAGAGAAGA  
GAAGCTTCGCAAGAGGGAGCAGAAGCAGAGGGACCGTGAGCTGCGCCGGAATCAGAAGAAGCTGGAGAAGCTGCA  
GGCGGAGGAGCAGAAGCAGCTGCAGGAGAAGATCAAGCTGGAGGAGCGCAAGCTGCTGCTGGCCAGAGGAACCT  
GCAGTCCATCCGGCTCATCGCCGAGCTGCTCAGCAGAGCCAAGTT**GTGATA**AGTCCCCGGAAGGAGCATGACAA  
GAGGCTGAGACATGTGGCAGCCAGTCCTTACCTCATGGCTGTGAAGCTACGGGAACAGGAGCAGAAGGAGGAGA  
AGCTGAGGCTCCAGCAGCAGGAGGAGCGGCGGCGGCTGCAGGAGGCCGAGCTGCGGCGCGTGGAGGAGGAGAAGG  
AGCGCGCGCTGGGCCTGCAGCGGAAAGAGCGGGAGCTGCGCGAGCGGCTGCTGAGCATCCTGCTGAGCAAGAAGC  
CGGACGACAGCCACACACACGACGAGCTGGGCGTGGCACACGCCGACCTGCTGCAGCCCGTCTTGGACATCCTGC  
AGACCGTGTCGTCCGGCTGTGTGAGCGCCACCACGCTGCACCCCTCGGGGGCCAGCCCCCGGCCGGTGGCCCCA  
AGGAGAGCGCGGCCACCCAGAGGCCGACGGCGCTCCCAAAGCGTGAACGGGAGCGTGGCCGAGGAGGCCCAT  
GCAAGGAGGTT**CAGAG**CTCCTGTGTGTGGTCCCCGAGGATGGCTCTCCAGAGAAGAGGTGCCCGGGCGGCGTCC  
TCTCCTGCATTCTTGACAACAACCAACAGCCCAAGGGCATCCCTGCCTGCGAGCAGAATGTCTCCAGAAAGGACA  
CCCGGTCAGAACAGGACAAGTGCAACCGGGAGCCCAGCAAGGGCCGGGGCCGGGCCACCGGAGACGGGCTTGCTG  
ACCGGCACAAGCGGGAGAGGAGCCGGGCCAGGCGGGCCAGCAGCAGGGAGGACGGGAGGCCACGCAAGGAGCGGC  
GGCCCCACAAGAAGCACGCCTACAAGGATGACAGCCCCCGCGCGCAGCAGAGCCCGGACCACACCCGGTCCC  
GGAGGTCCACAGCAAAGACAGGCACCGGAGGGAGCGGAGCCGGGAGCGGAGGGGAGCGGCCAGGAAGCACA  
GCCGCCACCGCCGCCGAAGCGAGCGGTGCGGCTCCCGGTCCCCGAGCAGGCACCGCAGTACCTGGAACAGGTAAT  
GACGGGCACGGCCTCCCCACGGCCTGTCCGGGAAAGACCAGGACCTGCTCGAGCCTCCTGGCCGCTCCTTGCCG  
CTCTCCGTCCACCCCTGCAAAGCCAAGACCCTTCTGCAGCCACGAACGTCCACGGAGCCTGCCGGCAGGAAGGAA  
GACACCATGCTTTAGAGATCCATCTTTCTCCACTACCGCAGCGTACTTGGCACTTCAGTTTCAAACACGTAGTC  
CTTTAA**AACT**TGATCCGATAGCTTTAATGCGGCCGGTCTCTCTCAGTCAGGAAAATTGCACAGACCGACAGTCG  
TGAGGATGGCAGAGCTGCTGCATTCCCCACACGGGGATTTCTGTGTCTGCTTGGCGACCTCCCTGCGTGACGG  
CCTAGGAGGTGCACGGGCCACCATAGTCACACTGGCACTGAAAAGAAAGCGTTGCCCTGGTGATTCTTTCCCCC  
CGTTTGTAATGTTAACTGATCAGGAAGTGAGTTTGGGTGGGATGCCGAATCGTCGTGCTGACATTGAGTCACGG  
ATGAGGAAGGTACAAGTCTTTAAGATCAAACTCAAAACGGGCCGTTCTTTCTAAGGTGTCGGTATGTGGGGAGT  
GGTACAAAATGGTCTGATGCTCCTTCAAAAACATTCACTTTTACAACGTCAAGGAATTAAGCATAAAAAAGATT  
GGTTAA**AAAG**CTTTGGTTTCTAGTAAAGGTTAGTGTGTGTGGTTTTTTTAAAGAGCTGTTTTGCTAAATTATTTTT  
ACTTGGAATGTTTCAAACAGATTT**CAGG**CTGCAAACTTGTTTTATAATCGTTTGCTTCTCCAAGTGAAGCTCAGA  
AATACCTAA**AAAT**AGCTGTAACGTTGCGGTTAGGAAAAGATGGTGT**TTAT**TCAGTTTGCA**TTTT**TATGGTGAAAT  
AAAATCCG

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**FIGURE 768**

MAAATIVHDTSEAVELCPAYGLYLKPITKMTISVALPQLKQPGKSI SNWEVMERLKGMVQNHQFSTLRISKSTMD  
FIRFEGEVENKSLVKSFLACLDGKTIKLSGFS DILKVRAAEFKIDFPTRHDWDSFFRDAKDMNETLPGERPDTIH  
LEGLPCKWFALKESGSEKPS EDVLVKVFEKFGEIRNVDIPMLDPYREEMTGRNFHTFSFGGHLNFEAYVQYREYM  
GFIQAMSALRGMKLMYKGEDGKAVACNIKVSFDSTKHLSDASIKKRQLERQKLQELEQQREEQKRREKEAEERQR  
AEERKQKELEELERERKRREKLRKREQKQRDRELRRNQKKLEKLQAEEQKLQEKIKLEERKLLLAQRNLQSIRL  
IAELLSRAKL

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**FIGURE 769**

GCCACTCCAGCCCCGCGCCCCCTCGCCGCGGCCCTCGGGCGTCTGCGCCGCAGCTGCCGCCCCGCCTCTTTGGAG  
TCTCTCGCGGCCTCAAAGCGCGGCCTGCGTCGCTTCCGGCAGTTCCAGACCGCGGGCG**ATGG**CTGCCGCTGGGGG  
CGCCCCGGCTGCTGCGCGCCGCTTCTGCTGTCTCGGCGGGCCCGGCCGGCGGGTGGCTGCACCACGCTGGGTCCCG  
CGCTGGATCCAGCGGCCTGCTGAGGAACCGGGGGCCGGGCGGGAGCGCGGAGGCGAGCCGGTTCGCTGAGCGTGT  
GGCGCGGGCCCCGGAGCAGCTCAGAAGATAAAATAACAGTCCACTTTATAAACCGTGATGGTGAAACATTAAACAAC  
CAAAGGAAAAGTTGGTGATTCTCTGCTAGATGTTGTGGTTGAAAAATAATCTAGATATTGATGGCTTTGGTGCAATG  
TGAGGGAACCCCTGGCTTGTTCAACCTGTCACCTCATCTTTGAAGATCACATATATGAGAAGTTAGATGCAATCAC  
TGATGAGGAGAATGACATGCTCGATCTGGCATATGGACTAACAGACAGATCACGGTTGGGCTGCCAAATCTGTTT  
GACAAAATCTATGGACAATATGACTGTTTCGAGTGCCTGAAACAGTGGCTGATGCCAGACAATCCATTGATGTGGG  
CAAGACCTCC**TGA**ACTAGAACAAATAGGAATATTTTCATGGAATTTTACCTATTTTTATAATTATTATTTCTTAA  
AGTGATTAAATGAGAACATGGATGAGTGGACTTCATATTATGACTAGCTTTACTATTTTAATTCACCTTGCAATA  
CTACTGAATTTTGTCAATCTTGAAAGTATGCAATTTTTATTTTGGTTATATTACAAAAATGTCAATCAAATATTA  
AAAAATAGTTAATGTGATAGAAAAACCTTACATATTTTTTTCTTATGTTTGTGTTAGCGACTTTAGCAAAATGTTT  
TCATATAATCTCATCTGTTTACCTAGAAGATAGGTTAAGGAAATATATTATTATTCCTGTTTGATGTGGGTGAAG  
GCAGAGATCTAACCTGGCTTGTTTAGGGCCATAACCTAATTAGAAAATCTGTGCTAGAACCTGTGTCTTATTCC  
TATAAGCTATGTGTTTCAGACTGAACTGGAGAAATTATGACTATTTTATTTATAGTAGTAGTTAAATCTGAATGT  
GTATGGACTAAAAATATTTAATTGCTGAGTAACTGCTTAACCTCAAAGATAGTTATTGACCTTATAAATAAATA  
TTTCAAAATTTTGATTCGGAAGACTAAGTCTGGAGCTAGACATTATAATGCTATCAAAGAAGTTGATCTCTGTTT  
TGACTAAACTAGAGGAAAAATGATTGGATGAGTTTATCTTTTCTAAGCAGAATGGTTTAACTTTGTACTCAAAG  
AAAAATAATGCTGATTTATAAATCTCTGCCTATAATAGAATGG

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**FIGURE 770**

MAAAGGARLLRAASAVLGGPAGRWLHHAGSRAGSSGLLRNRGPGGSAEASRSLSVSARARSSSEDKITVHFINRD  
GETLTTKGKVGDSLLDVVENNLDIDGFGACEGLACSTCHLIFEDHIYEKLDAITDEENDMLDLAYGLTDRSRL  
GCQICLTKSMDNMTVRVPETVADARQSIDVGKTS

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**FIGURE 771**

CTTCTCTTTTCCCTAGACTGCAGCCAGCGGAGCCCGCAGCCGGCCCCGAGCCAGGAACCCAGGTCCGGAGCCTCAA  
CTTCAGGATGTTGACAACATTGCTGCCGATACTGCTGCTGTCTGGCTGGGCCTTTTGTAGCCAAGACGCCTCAGA  
TGGCCTCCAAAGACTTCATATGCTCCAGATCTCCTACTTCCGCGACCCCTATCACGTGTGGTACCAGGGGCAACGC  
GTCGCTGGGGGGACACCTAACGCACGTGCTGGAAGGCCAGACACCAACACCACGATCATTACAGCTGCAGCCCTT  
GCAGGAGCCCGAGAGCTGGGCGCGCACGCAGAGTGGCCTGCAGTCCTACCTGCTCCAGTTCCACGGCCTCGTGCG  
CCTGGTGCACCAGGAGCGGACCTTGGCCTTTTCTCTGACCATCCGCTGCTTCCTGGGCTGTGAGCTGCCTCCCGA  
GGGCTCTAGAGCCCATGTCTTCTTCGAAGTGGCTGTGAATGGGAGCTCCTTTGTGAGTTTCCGGCCGGAGAGAGC  
CTTGTGGCAGGCAGACACCCAGGTACCTCCGGAGTGGTCACCTTACCCCTGCAGCAGCTCAATGCCTACAACCG  
CACTCGGTATGAACTGCGGGAATTCCTGGAGGACACCTGTGTGCAGTATGTGCAGAAACATATTTCCGCGGAAAA  
CACGAAAGGGAGCCAAACAAGCCGCTCCTACACTTCGCTGGTCCTGGGCGTCCTGGTGGGCGGTTTCATCATTGC  
TGGTGTGGCTGTAGGCATCTTCTGTGCACAGGTGGACGGCGATGTTAATTACTCTCCAGCCCCGTCAGAAGGGG  
CTGGATTGATGGAGGCTGGCAAGGGAAAGTTTCAGCTCACTGTGAAGCCAGACTCCCCAACTGAAACACCAGAAG  
GTTTGGAGTGACAGCTCCTTTCTTCTCCACATCTGCCCACTGAAGATTTGAGGGAGGGGAGATGGAGAGGAGAG  
GTGGACAAAGTACTTGGTTTGCTAAGAACCTAAGAACGTGTATGCTTTGCTGAATTAGTCTGATAAGTGAATGTT  
TATCTATCTTTGTGGAAAACAGATAATGGAGTTGGGGCAGGAAGCCTATGGCCCATCCTCCAAAGACAGACAGAA  
TCACCTGAGGCGTTCAAAAGATATAACCAAATAAACAAAGTCATCCACAATCAAAATACAACATTCAATACTTCCA  
GGTGTGTCAGACTTGGGATGGGACGCTGATATAATAGGGTAGAAAGAAGTAACACGAAGAAGTGGTGGAAATGTA  
AAATCCAAGTCATATGGCAGTGATCAATTATTAATCAATTAATAATATTAATAAATTTCTTATATTTAAGGCAAA  
AAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 772**

MLTTLLPILLLLSGWAFCSQDASDGLQRLHMLQISYFRDPYHVWYQGNASLGGHLTHVLEGPDNTNTTIIQLQPLQE  
PESWARTQSGLQSYLLQFHGLVRLVHQERTLAFPLTIRCFLGCELPPEGSRAHVFFEVAVNGSSFVSFRPERALW  
QADTQVTSQVVTFTLQQLNAYNRTRYELREFLEDTCVQYVQKHISAENTKGSQTSRSYTSVLGVLVGGFIIAGV  
AVGIFLCTGGRR

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**FIGURE 773A**

ACTCCCGGCCGGGGTAGCTCTTCACTCCTCAGCGCGACGTCGTGTCGAGTTCCCAAAAAGCTCCGCAGGGGCTGT  
AGGGAGGTGATCTCATCCATTAAACAGCTGTGTGTTGCCAGTTCCCAAAATCTTTATCTATCTCAGACTTCTCTCCT  
GCATTCCAGATTCTTATATTACAGCTGCCTTTTGGATATCTCTCCCAGGATGTTCTCAAGGCATACAAGAATTAAA  
TTCTGAATAAGTCTGCAGGTAGGATGGACAGTTATTTTAAAGCAGCTGTCAGTGACTTGGACAAACTCCTTGATG  
ATTTTGAACAGAACCCAGATGAACAAGATTATCTCCAAGATGTACAAAATGCATATGATTCTAACCAGTCTCAG  
TTTCTTCAGAGTTGGCTTCCTCACAGCGAACTTCATTGCTCCCAAAAGACCAAGAGTGCGTTAATAGTTGTGCCT  
CATCAGAAACAAGCTATGGAACAAATGAGAGTTCCTGAATGAAAAACACTCAAGGGACTTACTTCTATACAAA  
ATGAAAAAATGTAACAGGACTTGATCTTCTTTCTTCTGTGGATGGTGGTACTTCAGATGAAATCCAGCCGTTAT  
ATATGGGACGATGTAGTAAACCTATCTGTGATCTGATAAGTGACATGGGTAACCTTAGTTCATGCAACCAATAGTG  
AAGAAGATATTAAAAAATTATTGCCAGATGATTTTAAAGTCTAATGCAGATTCTTGATTGGATTGGATTTATCTT  
CAGTGTGAGATACTCCCTGTGTTTCTTCAACAGACCATGATAGTGATACTGTGAGAGAACAACAGAATGATACCA  
GTTCTGAATTACAAAATAGAGAAATCGGAGGAATCAAAGAATTGGGTATAAAAGTAGATACAACACTTTCAGATT  
CCTATAATTACAGTGGAACAGAAAATTTAAAAGATAAAAAGATCTTTAATCAGTTAGAATCAATTGTTGATTTTA  
ACATGTCTATCTGCTTTGACTCGACAAAGTTCCAAAATGTTTCATGCCAAAGACAAGCTACAACACAAGAGCCAGC  
CATGTGGATTACTAAAAGATGTTGGCTTAGTAAAAGAGGAAGTAGATGTGGCAGTCATAACTGCCGCAGAATGTT  
TAAAAGAAGAGGGCAAGACAAGTGCTTTGACCTGCAGCCTTCCGAAAAATGAAGATTTATGCTTAAATGATTCAA  
ATTCAAGAGATGAAAATTTCAAATTACCTGACTTTTCTTTTCAGGAAGATAAGACTGTTATAAAACAATCTGCAC  
AAGAAGACTCAAAAAGTTTAGACCTTAAGGATAATGATGTAATCCAAGATTCCTCTTCAGCTTTACATGTTTCCA  
GTAAAGATGTGCCGTCTCATTGTCCTGTCTTCTGCGTCTGGGTCTATGTGTGGATCATTAATTGAAAGTAAAG  
CACGGGGTGATTTTTTACCTCAGCATGAACATAAAGATAATATACAAGATGCAGTGACTATACATGAAGAAATAC  
AGAACAGTGTTGTTCTAGGTGGGGAACCATTCAAAGAGAATGATCTTTTGAAACAGGAAAAATGTAAAAGCATA  
TCCTTCAGTCATTAATTGAAGGGATGGAAGACAGAAAAGATAGATCCTGACCAGACAGTAATCAGAGCTGAGTCTT  
TGGATGGTGGTGACACCAGTTCTACAGTTGTAGAATCTCAAGAGGGGCTTTCTGGCACTCATGTCCAGAGTCTT  
CTGATTGTTGTGAAGTTTTTATTAATACTTTTTCAAGCAATGATATGGATGGGCAAGACTTAGATTACTTTAATA  
TTGATGAAGGCGCAAAAAGTGGCCACTAATTAGTGATGCTGAACTTGATGCCTTTCTGACAGAACAGTATCTTC  
AGACCACTAACATAAAGTCTTTTTGAAGAAAATGTAAATGACTCTAAATCGCAAATGAATCAGATAGATATGAAAG  
GCTTAGATGATGGAAACATCAATAATATATATTTCAATGCAGAAGCAGGAGCTATTGGGGAAAGTCATGGTATTA  
ATATAATTTGTGAACAGTTGATAAACAAAATACAATAGAAAATGGCCTTTCTTTAGGAGAAAAAAGCACTATTC  
CAGTTCAACAAGGGTTACCTACCAGTAAGTCTGAGATTACAAATCAATTATCAGTCTCTGATATTAACAGTCAAT  
CTGTTGGAGGGGCCAGACCTAAGCAATTGTTTAGCCTTCCATCAAGAACAAGGAGTTCAAAGGACCTGAATAAGC  
CAGATGTTCCAGATACAATAGAAAGTGAACCCAGCACAGCAGATACCGTTGTTCCAATCACTTGTGCTATAGATT  
CTACAGCTGATCCACAGGTTAGCTTCAACTCTAATTACATTGATATAGAAAGTAATTCTGAAGGTGGATCTAGTT  
TCGTAACCTGCAAATGAAGATTCTGTACCTGAAAACACTTGCAAAGAAGGCTTGGTTTTGGGCCAGAAACAGCCTA  
CTTGGGTCTCTGATTTCAGAAGCTCCAACTGTATGAACTGCCAAGTCAAATTTACTTTTACCAAACGGCGACACC  
ATTGCCGAGCATGTGGGAAAGTATTTTGTGGTGTCTGTGTGTAATAGGAAGTGAACTGCAATATCTAGAAAAGG  
AAGCAAGAGTATGTGTAGTCTGCTATGAACTATTAGTAAAGCTCAGGCATTTGAAAGGATGATGAGTCCAAGT  
GTTCTAATCTTAAGTCTAATCATTCTGATGAATGTACTACTGTCCAGCCTCCTCAGGAGAACCAAACATCCAGTA  
TACCTTCACCAGCAACTTTGCCAGTCTCAGCACTTAAACAACCAGGTGTTGAAGGACTATGTTCCAAAGAACAGA  
AGAGAGTATGGTTTGCAGATGGTATATTGCCCAATGGTGAAGTTGCAGATACAACAAAATTATCATCTGGAAGTA  
AAAGATGTTCTGAAGACTTTAGTCTCTCTCACCTGATGTGCCATGACAGTAAACACAGTGGATCATTCCCATT  
CTACTACAGTGGAAAAGCCAAACAATGAGACAGGAGATATTACAAGAAATGAGATAATTACAGAGTCTATTTCTC  
AGGTTCCATCAGTGGAAAAATTTGTCTATGAACACAGGAAATGAGGGGTTACCTACTTCTGGTTTCAATTTACACTAG  
ATGATGATGTTTTTGCAGAACTGAAGAACCATCTAGTCCTACTGGTGTCTTAGTTAACAGCAATTTACCTATTG  
CTAGTATTTACAGATTATAGGTTACTGTGTGATATTAACAAGTATGTCTGCAATAAGATTAGTCTTCTACCTAATG  
ATGAGGACAGTTTGCCCCCACTTCTGGTTGCATCTGGAGAAAAGGGATCAGTGCCTGTAGTAGAAGAACATCCAT  
CTCATGAGCAGATCATTTTGCTTCTTGAAGGTGAAGGCTTTTCATCCTGTTACATTTGTCTTAAATGCTAATCTAC  
TCGTGAATGTCAAATTCATATTTTATTCCTCAGACAAATATTGGTACTTTTCAACCAATGGATTGCATGGCTTGG  
GACAGGCAGAAATTATTATTCTATTGTTATGTTTGCCAAATGAAGATACTATTCTTAAGGACATCTTCAGACTAT



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**FIGURE 773B**

TTATCACCATATATAAGGATGCTCTAAAAGGAAAATACATAGAAAACCTTGGACAATATTACCTTTACTGAGAGTT  
TTCTCAGTAGCAAGGATCACGGAGGATTCTGTATTATACACCTACTTTTCAGAACTTGATGATCTCTCATTAC  
CAAGTAATCCTTTTCTTTGTGGAATTCTTATCCAGAAGCTTGAGATTCCCTGGGCAAAGGTTTTTCTATGCGTT  
TAATGTTGAGATTGGGTGCAGAATATAAAGCATATCCTGCTCCTCTAACAAGCATCAGAGGCCGAAAACCTCTTT  
TTGGAGAAATAGGACACACTATTATGAACCTTACTTGTGACCTTCGAAATTACCAGTATACCTTGCATAATATAG  
ATCAACTGTTGATTTCATATGGAAATGGGAAAAAGCTGCATAAAAAATACCACGGAAAAAGTACAGTGATGTAATGA  
AAGTACTAAATTCTTCCAATGAGCATGTCATTAGCATTGGAGCAAGTTTCAGTACAGAAGCAGATTCTCATCTAG  
TCTGTATACAGAATGATGGAATTTATGAAACACAGGCCAACAGTGCCACTGGCCATCCTAGAAAAGTGACAGGTG  
CAAGTTTTGTGGTATTCAATGGAGCTCTAAAAACATCTTCAGGATTTCTTGCTAAGTCCAGCATAGTTGAAGATG  
GCTTAATGGTACAAATAACTCCAGAGACCATGAATGGCTTGC GGCTAGCTTTACGAGAACAGAAAGACTTTAAAA  
TTACATGTGGGAAAGTTGATGCAGTAGACCTGAGAGAATACGTGGATATCTGCTGGGTAGATGCTGAAGAAAAAG  
GAAACAAAGGAGTTATCAGTTCAGTGGATGGAATATCATTACAAGGATTTCCAAGTGAAAAAATAAACTGGAAG  
CAGATTTTGAAACCGATGAGAAGATTGTAAAATGTACCGAGGTGTTCTACTTTCTAAAGGACCAGGATTTATCTA  
TTTTATCAACTTCTTATCAGTTTGCAAAAGAAATAGCCATGGCTTGTAGTGCTGCGCTGTGCCCTCACCTGAAAA  
CTCTAAAAAGTAATGGGATGAATAAAATTGGACTCAGAGTTTCCATTGACACTGATATGGTTGAATTCAGGCAG  
GATCTGAAGGCCAACTTCTGCCTCAGCATTATCTAAATGATCTTGATAGTGCTCTGATACCTGTGATCCATGGTG  
GGACCTCCAACCTCTAGTTTACCATTAGAAATAGAATTAGTGTTTTTCATTATAGAACATCTTTTTTAGTGAAAGA  
ATGTGCCATATTACATATTGCAACCTAATTTGTTAAACTAACTCCAGCACTAAAGCTGAAATGCCACAAACACT  
AAAAGTATAAATATGTCTGATTTTTGAAACACATAAGCTTTGCTCTTTAGGCAGGAATGATCTTTTCAAATCATT  
AGCACAAATATTTAAATATCTAAAAATTTAAGAGATCCATACTTTCTGTAGCTTTACAATTAATTTAAGTACTAAA  
AAGACAAGGATTTCTTTTAAGAAATTTATAGCATTACTGTGTTATTTAAATGCTAAGCCAAAGTATCTGCACTT  
AGGTATACCTCTTTATGCCAATAATGATTTTAATGAAGGCTCTTTTCAGATGTAACCTTATGAAGGAAATATCTG  
CTTTGTGTATATGCCAGTTAGAATACTGGTTTCTAAAGTCTGTCAAATTGTATTTAGTGGCACAAAAACCAGTT  
TTGAGGTCTTAGACTTATAATTCTTTGAATAAACTGATAACTTATTTGTATAATTGGAGTGAGACCTACCTCC  
ATAATTAGATAAACTCTTTTGGATTATAATCAGAATTTTGCTTTTTTCTTCTCAAATTATTACATATGTATGT  
ATTATATATCCACATATATAGTTTTCCCTGATTAAATGGATATTAATAAATTGCGGGTGCTTCAGGACTTTTTG  
CTTCTATATTTAAGTATATTGTTTTTATAGCAAGAACATATTCTGAATGTTTTATAAATCTTTAATAATTTATAT  
GTAGGTAATATTTTTGTATCACAATGCATTATTTTTTTCTCCTTTCTTCCAACTATAACCACTGTATTTACC  
ACTTCTAAGAGTGACTGACGACGGGCCAGATGACCCTTGAAGTAGTCATTATGTAGCAATAAATGAAGCCTGAAA  
CAGGTTTTTTTACTTCCACTTTAATCCTTAGAAATTTCTTGGCAACTTCGCATATTTTCATTGACACTGGTGTAT  
AAGTATAAATTTAAATGAACATAATTACTTTTGCATATTTTAAATCTTTATATGGTAGTTATTTTTTATAACAGG  
ATATTAACATAAGTTAAATCCTATGTATTTGAAATTGTTACAGAGCTTTCTCTTTACTTCAAACAGCAAAAAAG  
TGGGGGGCATATTGTAGTCCTGTCAATTAAGTTATGTAAAAAATTTAATCATTATTTTGATGCTTTAAACATTCT  
CATGTGTAATATATGTTTTTGTATCAAAAACACTCATATATTTCAAGAAAAAGAAATTATGTTAAATAGCCCTGT  
TTTAAGAAAAATATTTATGAAGCATCTCAACTTGAAGATCAAGTCAAAGTTATAACTCAGGATCTGAGGTCTCAA  
GCTAGGAGAGACTGAGAATTTTAATCAGTTTGGGCATATAGTTGGACTGAATCACATCTGTAGTACTTAGCCAA  
AGACAATTTGGAGGAGAATATCAGCCTTCTGGAAGTAGCTACTTCCTGAACAATGTAAAGTGTCGCAGATATTCA  
ATAAAATGGCAACCTGTTATAATTTGTGAAATTTATTGAAATGGTGTAAGATGAAAACAATTGCATATCAAACCC  
AATTTATGTTTTCTAAATATAGTGTATGTATTCTGCCATGTAAGTAATTGAACAGTCTTAAAATAACCAAATGGT  
AGAGGGCTGTTCATGATGGGACAGCTTTGGATTGTTTTTCATAAAATCTCTACATTCAATAAAAAATTGGAATTA  
TGTGCTGAAGTTTGGAGGCACATTTTGAAGT

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**FIGURE 774**

MDSYFKA AVSDLDKLLDDFEQNPDEQDYLQDVQNA YDSNHCSVSSELASSQRTSLLPKDQECVNSCASSSETS YGT  
NESSLNEKTLKGLTSIQNEKNVTGLDLLSSVDGGTSDEIQPLYMGRCSKPICDLISDMGNLVHATNSEEDIKKLL  
PDDFKSNADSLIGLDLSSVSDTPCVSSTDHSDTVREQQNDTSSELQNR EIGGIKELGIKVDTTLSDSYNYSGTE  
NLKDKKIFNQLESIVDFNMSSALTRQSSKMFHAKDKLQHKSQPCGLLKDVGLVKEEVDVAVITAAECLKEEGKTS  
ALTCSLPKNEDLCLNDSNSRDENFKLPDFSQEDKTVIKQSAQEDSKSLDLKDNDVIQDSSSALHVSSKDVPSSL  
SCLPASGSMCGSLIESKARGDFLPQHEHKDNIQDAVTIHEEIQNSVVLGGEPFKENDLLKQEKCKSILLQSLIEG  
MEDRKIDPDQTVIRAESLDGGDTSSTVVESQEGLSGTHVPESDCEGFINTFSSNDMDGQDLDYFNIDEGAKSG  
PLISDAELDAFLTEQYLQTTNIKSFEENVNDSK SQMNQIDMKGLDDGNINNIYFNAEAGAIGESHGINIICETVD  
KQNTIENGLSLGEKSTIPVQOGLPTSKSEITNQLSVSDINSQSVGGARPKQLFSLPSRTRSSKDLNKPDPVDTIE  
SEPSTADTVVPITCAIDSTADPQVSFNSNYIDIESNSEGGSSFVTANEDSVPENTCKEGLVLGQKQPTWVPDSEA  
PNCMNCQVKFTFTKRRHHCACGKVFCGVCCNRKCKLQYLEKEARVCVVCYETISKAQAFERMMSP TGSNLKSNH  
SDECTTVQPPQENQTSSIPSPATLPVSALKQPGVEGLCSKEQKRVWFADGILPNGEVADTTKLSSGSKRCSEDFS  
PLSPDVPMTVNTVDHSHSTTVEKPNNETGDI TRNEIIQSPISQVPSVEKLSMNTGNEGLPTSGSF TLDDDVFAET  
EEPSSPTGVLVNSNLP IASISDYRLLCDINKYVCNKISLLPNDEDSL PPLLVASGEKGSVPVVEEHPSHEQIILL  
LEGE GFHPVTFVLNANLLVNKFI FYSSDKYWFSTNGLHGLGQAEI IILLCLPNEDTIPKDI FRLFITIIYKDA  
LKGKYIENLDNITFTESFLSSKDHGGFLFITPTFQKLDL SLPSNPF LCGILIQKLEIPWAKVFPMLRLRLGAE  
YKAYPAPLTSIRGRKPLFGEIGHTIMNLLVDLRNYQYTLHNIDQLLIHMEMGKSCIKIPRKKYSDVMKVLNSSNE  
HVISIGASFSTEADSHLVCIQNDGIYETQANSATGHPRKVTGASFVVFNGALKTSSGFLAKSSIVEDGLMVQITP  
ETMNGLRALALREQDFKITCGKVDVLDREYVDICWVDAEEKGNKGVISSVDGISLQGFPSEKIKLEADFETDEK  
IVKCTEVFYFLKDQDLSILSTSYQFAKEIAMACSAALCPHLKTLKSNGMNKIGLRVSI DTDMVEFQAGSEGQLLP  
QHYLNDLDSALIPVIHGGTSNSSLPLEIELVFFIIEHLF



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**FIGURE 776**

MSPLLRRLLLAALLQLAPAPVSPDAPGHQRKVVSVIDVYTRATCQPREVVVPLTVELMGTVAKQLVPSCVTV  
QRCGGCCPDDGLECVPTGQHQVRMQILMIRYPSSQLGEMSLEEHSQCECRPKKKDSAVKPDRAATPHHRPQPRSV  
PGWDSAPGAPSPADITHPTPAPGPSAHAAPSTTSALTPGPAAAAADAAASSVAKGGA

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**FIGURE 777**

GCAGCCCACTCTTCCCGAGAGGCCCGACATCTCCCGGATAATCTGGAGCTTTCAAAA**ATG**TTTGCCAAAGCAACC  
AGGAATTTTCTTAGAGAAGTTGATGCTGATGGTGACCTGATTGCAGTATCAAATCTGAATGACTCTGATAAGTTA  
CAGCTTCTAAGTCTGGTGACAAAAAAGAAGAGATTCTGGTGCTGGCAGAGACCCAAGTACCAGTTTTTATCCCTC  
ACCCCTTGCGCATGTACTCATAGAAGACCAATTTCCGAGTCCAGTGGTTCGTGGAGTCGGACTTTGTGAAATACGAG  
GGCAAGTTTGCAAACCACGTGAGTGGAACCTGGAGACTGCACCTGGGGAAGGTCAAGCTGAACCTGGGGGGCAGC  
AGCCGCGTAGAGAGCCAGTCTTCATTTGGAACCTGAGGAAGCAGGAGGTGGATTTGCAGCAGCTCATCAGAGAC  
TCTGCCGAGAGAACAATAAATCTGAGAAACCTGTGCTCCAGCAGGTGCTGGAAGGAAGGAATGAGGTCCTGTGC  
GTTTTGACACAGAAGATCACGACGATGCAGAAGTGTGTGATCTCTGAGCACATGCAGGTTCGAGGAGAAGTGTGGT  
GGCATCGTGGGCATCCAGACCAAGACGGTGCAGGTGTCAGCGACGGAGGATGGGAATGTCACCAAGGACTCCAAC  
GTGGTGCTGGAGATCCCAGCTGCCACCACCATTCCTACGGTGTTCATTGAGTTATACGTGAAACTGGACGGCCAG  
TTCGAGTTCTGCCTTCTCCGAGGGAAGCAAGGTGGCTTCGAGAACAAGAAGAGAATTGACTCTGTCTACCTGGAC  
CCCCTGGTCTTTTCGAGAGTTTGCATTCATAGACATGCCAGATGCTGCGCATGGGATATCTTCCCAGGATGGACCA  
TTAAGTGTTTTAAAGCAAGCGACCCTGCTCCTGGAGAGGAATTTCCATCCATTTGCGGAGCTGCCTGAGCCACAA  
CAGACAGCTTTGAGTGACATCTTCCAGGCGGTCTTATTTGATGATGAATACTACTCATGGTCTCTGGAACCAAGTGTGC  
GATGACCTGGTCAGCGGCCTCTCGCCACAGTGGCGGTGCTGGGGGAGCTGAAGCCCCGGCAGCAGCAGGACCTT  
GTGGCCTTCCTGCAGCTGGTGGGGTGCAGCTTACAGGGTGGGTGTCCGGGCCCCGAGGATGCAGGCAGCAAGCAG  
CTGTTTATGACAGCCTACTTCTTGGTCAGTGCCCTCGCAGAAATGCCAGATAGCGCGGCAGCTCTGCTGGGCACT  
TGCTGCAAACTCCAGATCATTCCACACTGTGCCACTTGCTTCGTGCTCTGTCTGATGATGGAGTATCTGATCTT  
GAAGACCCAACCTTGACTCCCCTGAAAGATACAGAAAGGTTTGGGATTGTGCAGCGCTTGTTTGCCTCAGCTGAC  
ATTAGTCTGGAGAGACTGAAGTCATCTGTGAAAGCTGTCATTCTGAAGGACTCTAAAGTCTTCCCCTGCTTCTT  
TGTATAACCCCTGAATGGACTCTGTGCTTTAGGCAGAGAACATT**CATGAT**GTGCATATGTGAAGTAGAAGTACGTGT  
TACTGGCCAAGGCTATTTTTTCAGAACTGTTAAAAGGTCAATGCACGTTAAAAGTTGACCAATGAAATGAATTTAC  
AGAACAGTTTAAAGAAGTGGTGACATTTTGCATGATGAATGACCTGACTTTTAGCCACCAGGTACTCTTTAAACAG  
TTTTCTTATCAGAGGCCCTCCTGTGCTGGTGACCCAGCATCTGAGTTAGGTTCCAGCATGTAAAGAGCTGGGAG  
GGCGGAGAATTCTTAGCATACATTTCAGACGTTTTTTCTGCACAATAATAAGTCCATCTGTCACTTGCAATTCCACT  
TTTTGTTACATAGAAAGAGTCTGACCCTTTAATCCAAAAGGTCTTTTTTACATTGTGAATGCTGTGGGAAGGCAAT  
TTCTCTGCACACAAGAGGCTACGTTTTTGAAGTGATGTATGTTATTTGATGACTGAAAATGAACTGTAAATGCTC  
CTAGAGTATATTCCTCTGCTGAACAAAATTAACCTTCAAAAAATCTAACAGTAACACACCCCTGCTTGGGACCC  
TAGCTATATGCATTTTATGTGACCTTGCCATGCTTCAGTGAACATACTAATTCTATGTCTAGCACATGTTGATTT  
CCTATGTATTCTGGGTATTCTATTAAAGGAACTTTGAACTATTAAAAA

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**FIGURE 778**

MFAKATRNFLREVDADGDLIAVSNLNDSKQLQLSLVTKKKRFWCWQRPKYQFLSLTLGDLIEDQFPSPVVES  
DFVKYEGKFANHVSGTLETALGKVKNLGGSSRVESQSSFGTLRKQEVLDLQQLIRDSAERTINLRNPVLQQVLEG  
RNEVLCVLTQKITTMQKCVISEHMQVEEKCGGIVGIGTKTVQVSATEDGNVTKDSNVVLEIPAATTIAYGVIELY  
VKLDGQFEFCLLRGKQGGFENKKRIDSVYLDPLVFREFAFIDMPDAAHGISSQDGPLSVLKQATLLERNFHPFA  
ELPEPQQTALSDFQAVLFDDELLMVLEPVCDDLVSGLSPTVAVLGELKPRQQDLVAFQLVGCSSLQGGCPGPE  
DAGSKQLFMTAYFLVSALAEMPDSAAAALLGTCKLQIIPITLCHLLRALSDDGVSLEDPTLTPLKDTERFGIVQR  
LFASADISLERLKSSVKAVILKDSKVFPLLLCITLNGLCALGREHS

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**FIGURE 779**

GAAGGAGGCCCAGACAGTGAGGGCAGGAGGGAGAGAAGAGACGCAGAAGGAGAGCGAGCGAGAGAGAAAAGGGTTC  
TGGATTGGAGGGGAGAGCAAGGGAGGGAGGAAGGCCGTGAGAGAGGCGGGGGCCTCGGGAGGGTGAAAGGAGGGA  
GGAGAAGGGCGGGGCACGGAGGCCCGAGCGAGGGACAAGACTCCGACTCCAGCTCTGACTTTTTTCGCGGCTCTC  
GGCTTCCACTGCAGCCATGTCACTCCTCTTGCTGGTGGTCTCAGCCCTTCACATCCTCATTCTTATACTGCTTTT  
CGTGGCCACTTTGGACAAGTCCTGGTGGACTCTCCCTGGGAAAAGAGTCCCTGAATCTCTGGTACGACTGCACGTG  
GAACAACGACACCAAAACATGGGCCTGCAGTAATGTCAGCGAGAATGGCTGGCTGAAGGCGGTGCAGGTCCTCAT  
GGTGCTCTCCCTCATTCTCTGCTGTCTCTCCTTCATCCTGTTTCATGTTCCAGCTCTACACCATGCGACGAGGAGG  
TCTCTTCTATGCCACCGGCCTCTGCCAGCTTTGCACCAGCGTGGCGGTGTTTACTGGCGCCTTGATCTATGCCAT  
TCACGCCGAGGAGATCCTGGAGAAGCACCCGCGAGGGGGCAGCTTCGGATACTGCTTCGCCCTGGCCTGGGTGGC  
CTTCCCCCTCGCCCTGGTCAGCGGCATCATCTACATCCACCTACGGAAGCGGGAGTGAGCGCCCCGCCTCGCTCG  
GCTGCCCCCGCCCTTCCCGGCCCCCTCGCCGCGCGTCCTCCAAAAAATAAACTTTAACGGCGG

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**FIGURE 780**

MSLLLLVVSALHILILILLFVATLDKSWWTLPKGESLNLWYDCTWNNDTKTWACSNVSENGWLKAVQVLMVLSLI  
LCCLSFILFMFQLYTMRRGGLFYATGLCQLCTSVAVFTGALIIYAIHAEIILEKHPRGGSFGYCFALAWVAFPLAL  
VSGIIYIHLRKRE



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**FIGURE 781**

GGCTCTGGGCATCACCAGCGGCCCCAGGGAAAAAGAAAGAAATGGGAAACAGCATGAAATCCACCCCTGCGCCTG  
CCGAGAGGCCCCCTGCCCAACCCGGAGGGACTGGATAGCGACTTCCTTGCCGTGCTAAGTGACTACCCGTCTCCTG  
ACATCAGCCCCCGATATTCCGCCGAGGGGAGAAACTGCGTGTGATTTCTGATGAAGGGGGCTGGTGGAAAGCTA  
TTTCTCTTAGCACTGGTCGAGAGAGTTACATCCCTGGAATATGTGTGGCCAGAGTTTACCATGGCTGGCTGTTTG  
AGGGCCTGGGCAGAGACAAGGCCGAGGAGCTGCTGCAGCTGCCAGACACAAAGGTTCGGCTCCTTCATGATCAGAG  
AGAGTGAGACCAAGAAAGGGTTTTACTCACTGTCGGTGAGACACAGGCAGGTAAAGCATTACCGCATTTTCCGTC  
TGCCGAACAACCTGGTACTACATTTCCCCGAGGCTCACCTTCAGTGCCCTGGAGGACCTGGTGAACCACTATTCTG  
AGGTGGCTGATGGCCTGTGCTGTGTGCTCACCACGCCCTGCCTGACACAAAGCACGGCTGCCCCAGCAGTGAGGG  
CCTCCAGCTCACCTGTACCTTGCCTCAGAAGACTGTGGACTGGAGGAGAGTGTCCAGACTGCAGGAGGACCCCCG  
AGGGAACAGAGAACCCGCTTGGGGTAGACGAGTCCCTTTTCAGCTATGGCCTTCGAGAGAGCATTGCCTCTTACC  
TGTCCCTGACCAGTGAGGACAACACCTCCTTTGATCGAAAGAAGAAAAGCATCTCCCTGATGTATGGTGGCAGCA  
AGAGAAAGAGCTCATTCTTCTCATCACCACCTTACTTTGAGGACTAGCCAAGAACAGACACAATGGTTTCATGCC  
AAAAGGAACAGAAGTTCCAACCTATTGCCTGGGATCTTGCGAAAAGCGAGGTTCCCTGATCCCTGGGAGCCTCACG  
TATTTTAGAAGCCAAGAGAAGCCACATGGAGACTCAAATTCGCATCTTCTCTATCCACATCATGACCAAAGGAAC  
CCCTCCCTGGTGTCTGATCAGGGCTGTGGCATCACAAAACATTGGATCATGACATGTCGGGCGATGCTTGGAAAA  
GCCCAGCATGTATGTATGCACACATTGTGTGTGTGGGAAGGACAAAGCCACTCTCACAAGAAAGGGCACCAGGAC  
TGCTCTCCAAGGAACCTGGACCTGTCCAGACAGTTACACTCCAAGGTCATTGGAGAGAACTTCTGTATGGGCAAGC  
CTGAGAGGGGAGAGGAAACAAAAGCTGTGTCTTGGCAGAAGGTCTGGGTTTGCAGATGGGTGCCCTGAATGGAAC  
ACTTTAACTAATCCATAGGGACTTCTGGTATGCTTTCTCTCTTTTAAAGGAACCTTCGTGACACTAAACATTAG  
CCCAAAGGACTTCTTAGCCTTCAATTGGGAGATACCTTTGGTCTGCTCCTGCACCAAAGCCATATGGGTGGAAAGT  
CAGTTGGCCTCCCTGGTTCTGCAGAGGGCCAGAAGAATGAGAGAGAGGAAGACTGCTGGCAGGGAAATCGAGGAG  
GCGAGACTAGAACTGCACCAGCTTCCCTGATGTCTGCAGCCATGGCTTTGCAGCGCAAACAGAACTTCTCTGGGA  
TGCTGGGATTCTTGCCGTGTATGAATGCATCAAGTATTCATTTATTGCCCGAATAGGCATTGCATTAAGTCCTCTG  
TTAGGTGTCAGGCAAGCCAAAAAAAAAAAAAAAAAGATGCTAAGTCCTAACCCCAACAGAAGTGTTACAGTGTTAGA  
CGGGAAAAAATGTATAAACAAATGTGTAAAAAGAGAAATCAGCTCATGGCTTAGGATGGAATTAGAGACAGGTGA  
GGGACACTCAGGAGCTCATTTTCCAGCTGCTCTTCAGAGTGGAAGGGCTGGCTGGATCGGGTAGGTAAGAATAGC  
TGGATTTTTTTAGAAAAAGAAATGGATACAGTCTAAAGAATTAACCTACCCCGTACTTTATTCTAAGAAGGGTCTGG  
CATCCATATGAGGAAAAATGCTCAGCTCCAGGAAAGATGGGGAGTCCAAGTGGAATTAATGATGTCATGCATAATT  
TTAAGAGACAAGGGAGAAAACACAATGTATAGCCAGAGAAGGAGAAGCTCCCATCCAAATCCTACTAGGAAGAGA  
GTGGGCTGCAGATGAATCTGTGACTCATGTTTCCCTGTTTCAAAGGGATCCTGGGGAAGGAGGGGAACATGCTTG  
CAGTATCTCTCCCTGTCTGTCTGCTCACATAAGCATTCCGTCCATCTAAGCTCATCGTGCTACTGGTATGTGTAT  
GTGCAGTTACACAGTTTCTGTATCATAAATCCTAGTGTGTTTATACAAGGAGACATCTGTGGTTTCCCCAACCG  
TTCCAAAAGGCTATTTCAAAGGAACCCAGCCACGTATGAGAAATGAATGTAACACTGTGGACATTGACTTCCCGC  
ATAAGGCAGGGTGACCCCTGAACCTCAGATGTTTGCACAGTATCTTATGTGTGTTTTCCGTGTGACGAATGT  
GATTGGAACATTTGGGGAGCACCCAGAGGGATTTTTCAGTGGGAAGCATTACACTTTGCTAAATCATGTATTTAT  
TCCTGATTAACAAACCTAATAAATATTTAACCTTGGC

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**FIGURE 782**

MGNSMKSTPAPAERPLPNPEGLDSDFLAVLSDYPSDISPPIFRERGEKLRVISDEGGWWKAISLSTGRESYIPGI  
CVARVYHGWLFEGLGRDKAEELLQLPDTKVGSFMIRESETKKGFYSLSVRHRQVKHYRIFRLPNNWYYISPRLTF  
QCLEDLVNHYSEVADGLCCVLTTTPCLTQSTAAPAVRASSSPVTLRQKTVDWRRVSRLOEDPEGTENPLGVDESLE  
SYGLRESIASYLSLTSEDNTSFDRKKKSISLMYGGSKRKSSFFSSPPYFED

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**FIGURE 783**

GGCCAGGAACGCACGCTGCCTGGCCGTATCGCCGCCCCACCGACGCCGCCGCCGGGACTAGAAGTGAGCCGCC  
GGGTCCCAAACGCCAGCCAGCCAGTCAGTGGGTCCCGCAGTCGCCCGCAACCGGGGCGAATC**ATGGCGGCCGCCA**  
AGGTGGCTTTAACCAAGAGAGCAGATCCAGCTGAGCTTAGAACAATATTTTTGAAGTATGCAAGCATTGAGAAAA  
ACGGTGAATTTTTCATGTCCCCCAATGACTTTGTCACTCGATACTTGAACATTTTTGGAGAAAGCCAGCCTAATC  
CAAAGACTGTGGAACTTTTAAGTGGAGTGGTGGATCAGACCAAAGATGGATTAAATATCTTTTCAAGAATTTGTTG  
CCTTTGAATCTGTCTGTGTGCCCTGATGCTTTGTTTATGGTAGCCTTTCAGCTGTTTGACAAAGCTGGCAAAG  
GAGAAGTAACTTTTGAGGATGTTAAGCAAGTTTTTGGACAGACCACAATTCATCAACATATTCCATTTAACTGGG  
ATTCAGAAATTTGTGCAACTACATTTTGGAAAAGAAAGAAAAAGACACCTGACATATGCGGAATTTACTCAGTTTT  
TATTGGAAATACAACCTGGAGCAGCAAAGCAAGCCTTTGTGCAACGGGACAATGCTAGGACTGGGAGAGTCACAG  
CCATCGACTTCCGAGACATCATGGTCACCATCCGCCCCCATGTCTTGACTCCTTTTGTAGAAGAATGTCTAGTAG  
CTGCTGCTGGAGGTACCACATCCCATCAAGTTAGTTTCTCCTATTTTAAATGGATTAAATTCGCTCCTTAACAACA  
TGGAACCTATTAGAAAGATCTATAGCACTCTGGCTGGCACCAGGAAAGATGTTGAAGTGACTAAGGAGGAGTTTG  
TTCTGGCAGCTCAGAAATTTGGTCAGGTTACACCCATGGAAGTTGACATCTTGTTTCAGTTAGCAGATTTATATG  
AGCCAAGGGGACGTATGACCTTAGCAGACATTGAACGGATTGCTCCTCTGGAAGAGGGAACCTCTGCCCTTTAACT  
TGGCTGAGGCCCAGAGGCAGAAGGCCTCAGGTGATTAGCTCGACCAGTTCTTCTACAAGTTGCAGAGTCGGCCT  
ACAGGTTTGGTCTGGGTTCTGTTGCTGGAGCTGTTGGAGCCACTGCTGTGTATCCTATCGATCTTGTAAAACTC  
GAATGCAGAACCAACGATCAACTGGCTCTTTTGTGGGAGAACTCATGTATAAAAACAGCTTTGACTGTTTTAAGA  
AAGTGCTACGCTATGAAGGCTTCTTTGACTGTATAGAGGTCTGTTGCCACAGTTATTGGGAGTTGCCCCAGAGA  
AGGCCATAAACTTACAGTGAACGATTTTTGTGAGGGATAAAATTTATGCACAAAGATGGTTCGGTCCCACTTGCGAG  
CAGAAATCTTGTCTGGAGGCTGCGCTGGAGGCTCCAGGTGATTTTCACAAATCCTTTAGAAATCGTCAAGATCC  
GTTTGCAGTGGCAGGAGAAATCACCAGTGGTCTCGAGTCAGTGCTCTGTCTGTCTGCTGCGGGACCTGGGGTTTT  
TTGGGATCTACAAGGGTGCCAAAGCATGCTTTCTGCGGGACATTCCCTTTCTCGGCCATCTACTTTCCGTGCTATG  
CTCATGTGAAGGCTTCCTTTGCAAATGAAGATGGGCAGGTTAGCCCAGGAAGCCTGCTCTTAGCTGGTGCCATAG  
CTGGTATGCCTGCAGCATCTTTAGTGACCCCTGCTGATGTTATCAAGACGAGATTACAGGTGGCTGCCCCGGGCTG  
GCCAAACCACTTACAGCGGAGTGATAGACTGCTTTAGAAAGATACTGCGTGAAGAAGGACCAAAAGCTCTGTGGA  
AGGGAGCTGGTGCTCGTGTATTTTCGATCCTCACCCAGTTTGGTGTAACCTTTGCTGACTTACGAATTGCTACAGC  
GATGGTTCTACATTGATTTTGGAGGAGTAAAACCCATGGGATCAGAGCCAGTTCTTAAATCCAGGATCAACCTGC  
CTGCCCCGAATCCTGATCACGTTGGGGGTACAACTGGCAGTTGCTACATTTGCAGGGATTGAAAACAAATTTG  
GACTTTACCTACCTCTCTTCAAGCCATCAGTATCTACCTCAAAGGCTATTGGTGGAGGCC**ATAGGA**AGATCAGC  
CCTGGGATAGTGCTGTCTTTTTGTGGGTACTGCAGTAAAGAACATCCCTCCTGGGAATGAAGCAATGCTTCATCC  
CTTTTACGTCCATCTCTTGTTTAAATTCAAGTCCAGGCTTTTTTATCATGTGAAATCATTCAATTTCTGGGTGTT  
TTCTTAACCAGATCATTGTGAAATTATTCATAATTATTTTGGCCCTCTGCCAGAAACCTTTGTTTGCACTCTG  
AAAATTGATGGGATTTGGTCAACACTAACATGATTTGGGGAAAGGAGCAAGTCAGAATAGAAATTAGTACTCCCC  
TCCTTGAACTAGGATTGTAGTCCCAAAGAGGCTACTGTAAGGCAATCATGGTGCTCAGAGCAGTGTTTCGTGTGT  
GTTTTAACTGGTAGGAACTAGGTGCATATTTATAAAAAATAAAAAACACTGGGAGAAATGAAAAAATATATATC  
AAATATATTACGCTGGCTTCAAATTGTAAGCATGCACAAATCTGTCTCTGGATTATATTATGAAGCTTTTATG  
TGAAACATGTTTCTTTGTAATGAAAACCACATTGGAGATGTTTAGTAATCATATTGTTACTGGTACCAAGACTAC  
TAGGGAAATGCCTTTGTACTTTAGGGAAGTACTTTTGGCATTTTACTGTACAGACAGAAAAAAGTGGAGATGTAGC  
CCCTCTCCTGGAAGTGCTAATTTTGA AAAAAGTCTCATATGATGTACATGTACTGATTACTGCCTATTTTAAATAA  
ACACTCTTGAAAAATGCATGTTGCCCTGTTGCTGCCTGCCCTATTCTCCTCATCTCCCCATCATTGGTACCCACT  
TGCTTTTAAATCCACTTTATCTTGAATAATGTAAGACAAATATGTTCTGACATAAGTATTTAATTCATGTTGCC  
TTGCATAATGGTCAGAGGCGCATGAATTTGTGAAGGTGGAAATAAACTATTTGTAAAGTGAAAAAAGTAAAAA

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**FIGURE 784**

MAAAKVALTKRADPAELRTIFLKYASIEKNGEFFMSPNDFVTRYLNIFGESQPNPKTVELLSGVVVDQTKDGLISF  
QEFVAFESVLCAPDALFMVAFQLFDKAGKGEVTFEDVKQVFGQTTIHQHIFPNWDSEFVQLHFGKERKRHLTYAE  
FTQFLLEIQLEHAKQAFVQRDNARTGRVTAIDFRDIMVTIRPHVLTTPFVEECLVAAAGGTTSHQVSFSYFNGFNS  
LLNNMELIRKIYSTLAGTRKDVEVTKEEFVLAAQKFGQVTPMEVDILFQLADLYEPRGRMTLADIERIAPLEEGT  
LPFNLAEAQRQKASGDSARPVLLQVAESAYRFGGLGSVAGAVGATAVYPIDLVKTRMQNQSTGFSFVGELMYKNSF  
DCFKKVLRYEGFFGLYRGLLPQLLGVAPEKAIKLTVNDFVRDKFMHKDGSVPLAAEILAGGCAGGSQVIFTNPLE  
IVKIRLQVAGEITTGPRVSALSVVRDLGFFGIYKGAKACFLRDIPFSAIYFPCYAHVKASFANEDGQVSPGSLLL  
AGAIAGMPAASLVTPADVIKTRLQVAARAGQTTYSGVIDCFRKILREEGPKALWKGAGARVFRSSPQFGVTLLTY  
ELLQRWFYIDFGGVKPMGSEPVPKSRINLPAPNPDHVGGYKLAVATFAGIENKFGLYLPLFKPSVSTSKAIGGGP

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**FIGURE 785A**

GGACTGCGAAAGGAGCAGGGTTGCGGAGCTAGGGCTCCAGCCTGCGGCCGCGCATTCTTGCGTCTGGCCAGCCGC  
GAGCTCTAAGGGTCGGCCCCGCGCGGTCCGCCCCGCGGCTCCCTGCCAGGCTCTCGCGGGCGCGCTCGGGGTGG  
GGCTCGCGGCTGGCGGAGATGCGGCCGGGGCTGCGCGGTGGTGATGCGAGCCTGCTGGGCGGCGCGCCGGGGCA  
GCCGGAGCCGCGCGCCGCGGCGCTGTAATCGGACACCAAGAGCGCTCGCCCCGGCCTCCGGCCACTTTCCATTC  
ACTCCGAGGTGCTTGATTGAGCGACGCGGAGAAAGAGCTCCGGGTGCCGCGGCACTGCAGCGCTGAGATTCTTTTA  
CAAAGAACTCAGAGGACCGGGAAGAAAGAAATTTACCTTTGCGACGTGCTAGAAAATAAGGTCGTCTGGGAAAA  
GGACTGGAGACACAAGCGCATCCAACCCCGGTAGCAAACCTGATGACTTTTCCGTGCTGATTCTTTCAACCTCGG  
TATTTTCCCTTGATATTAACCTTGCATATCTGAAGAAATGGCATTCCGGACAATTTGCGTGTGGTTGGAGTATT  
TATTTGTTCTATCTGTGTGAAAGGATCTTCCAGCCCCAAGCAAGAGTTTATTTAACATTTGATGAACTTCGAGA  
AACCAAGACCTCTGAATACTTCAGCCTTTCCACCATCCTTTAGACTACAGGATTTTATTAATGGATGAAGATCA  
GGACCGGATATATGTGGGAAGCAAAGATCACATTCTTTCCCTGAATATTAACAATATAAGTCAAGAAGCTTTGAG  
TGTTTTCTGGCCAGCATCTACAATCAAAGTTGAAGAAATGCAAATGGCTGGCAAAGATCCACACACGGCTGTGG  
GAACTTTGTCCGTGTAATTCAGACTTTCAATCGCACACATTTGTATGTCTGTGGGAGTGGCGCTTTCAGTCCTGT  
CTGTACTTACTTGAACAGAGGGAGGAGATCAGAGGACCAAGTTTTTCATGATTGACTCCAAGTGTGAATCTGGAAA  
AGGACGCTGCTCTTTCAACCCCAACGTGAACACGGTGTCTGTTATGATCAATGAGGAGCTTTTCTCTGGAATGTA  
TATAGATTTTCATGGGGACAGATGCTGCTATTTTTCGAAGTTTAAACCAAGAGGAATGCGGTGAGAACTGATCAACA  
TAATTCCAAATGGCTAAGTGAACCTATGTTTGTAGATGCACATGTATCCAGATGGTACTGATCCAAATGATGC  
TAAGGTGTACTTCTTCTTCAAAGAAAACTGACTGACAATAACAGGAGCACGAAACAGATTCAATCCATGATTGC  
TCGAATATGTCCTAATGACACTGGTGGACTGCGTAGCCTTGTCAACAAGTGGACCACTTTCTTAAAGGCGAGGCT  
GGTGTGCTCGGTAACAGATGAAGACGGCCAGAAAACACACTTTGATGAATTAGAGGATGTGTTTCTGCTGGAAC  
TGATAACCCGAGGACAACACTAGTGTATGGCATTTTTACAACATCAAGCTCAGTTTTCAAAGGATCAGCCGTGTG  
TGTGTATCATTTATCTGATATACAGACTGTGTTAATGGGCCTTTTGCCACAAAGAAGGGCCCAATCATCAGCT  
GATTTCCCTATCAGGGCAGAATTCATATCCTCGCCCTGGAACCTTGTCAGGAGGAGCATTTACACCCAATATGCG  
AACCACCAAGGAGTTCCAGATGATGTTGTCACTTTTATTTCGGAACCATCCTCTCATGTACAATTCCATCTACCC  
AATCCACAAAAGGCCTTTGATTGTTTCGTATTGGCACTGACTACAAGTACACAAAGATAGCTGTGGATCGAGTGAA  
CGCTGCTGATGGGAGATACCATGTCCTGTTTCTCGGAACAGATCGGGGTACTGTGCAAAAAGTGGTTGTTCTTCC  
TACTAACAACCTCTGTCTAGTGGCGAGCTCATTCTGGAGGAGCTGGAAGTCTTTAAGAATCATGCTCCTATAACAAC  
AATGAAAAATTTTCATCTAAAAAGCAACAGTTGTATGTGAGTTCCAATGAAGGGGTTTCCCAAGTATCTCTGCACCG  
CTGCCACATCTATGGTACAGCCTGTGCTGACTGCTGCCTGGCGCGGGACCCTTATTGCGCCTGGGATGGCCATT  
CTGTTCCAGATTCTACCCAACCTGGGAAACGGAGGAGCCGAAGACAAGATGTGAGACATGGAACCCACTGACTCA  
ATGCAGAGGATTTAATCTAAAAGCATAACAGAAATGCAGCTGAAATTGTGACAGTATGGAGTAAAAAATAACACCAC  
TTTTCTGGAGTGTGCCCCCAAGTCTCCGCAGGCATCTATCAAGTGGCTGTTACAGAAAGACAAAGACAGGAGGAA  
AGAGGTTAAGCTGAATGAACGAATAATAGCCACTTCACAGGGACTCCTGATCCGCTCTGTTTCAGGGTTCTGACCA  
AGGACTTTATCACTGCATTGCTACAGAAAATAGTTTCAAGCAGACCATAGCCAAGATCAACTTCAAAGTTTATA  
TTCAGAAATGGTGGCTGTTGTGACGGACAAATGGTCCCCGTGGACCTGGGCCAGCTCTGTGAGGGCTTTACCCCT  
CCACCCGAAGGACATCATGGGGGCATTTCAGCCACTCAGAAATGCAGATGATTAACCAATACTGCAAAGACACTCG  
GCAGCAACATCAGCAGGGAGATGAATCACAGAAAATGAGAGGGGACTATGGCAAGTTAAAGGCCCTCATCAATAG  
TCGGAAAAGTAGAAACAGGAGGAATCAGTTGCCAGAGTCAATAATATTTCTTATGTGGGTCTTATGCTTCCATTA  
ACAAATGCTCTGTCTTCAATGATCAAATTTTGAGCAAAGAAAATTTGTGCTTTACCAAGGGGAATTACTGAAAAAG  
GTGATTACTCCTGAAGTGAGTTTTACACGAACCTGAAATGAGCATGCATTTTCTTGTATGATAGTGAAGTACTAGCACTA  
GACATGTATGGTCCCTCATGGTGCATATAAATATATTTAACTTAACCCAGATTTTATTTATATCTTTATTACCT  
TTTCTTCAAATCGATATGGTGGCTGCAAACTAGAATTGTTGCATCCCTCAATTGAATGAGGGCCATATCCCTG  
TGGTATTCCCTTCTGCTTTGGGGCTTTAGAATTCTAATTGTCAGTGATTTTGTATATGAAAACAAGTTCCAAAT  
CCACAGCTTTTACGTAGTAAAAGTCATAAATGCATATGACAGAATGGCTATCAAAGAAATAGAAAAGGAAGACG  
GCATTTAAAGTTGTATAAAAACACGAGTTATTCATAAAGAGAAAATGATGAGTTTTTATGGTTCCAATGAAATAT  
CTTCCCCCTTTTTTAAGATTGTAAAAATAATCAGTTACTGGTATCTGTCACTGACCTTTGTTTCCTTATTCAGGA  
AGATAAAAAATCAGTAACCTACCCCATGAAGATATTTGGTGGGAGTTATATCAGTGAAGCAGTTTGGTTTATATTC  
TTATGTTATCACCTTCCAAACAAAAGCACTTACTTTTTTTGGAAGTTATTTAATTTATTTTAGACTCAAAGAATA

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**FIGURE 785B**

TAATCTTGCACTACTCAGTTATTACTGTTTGTCTCTTATTCCCTAGTCTGTGTGGCAAATTAAACAATATAAGA  
AGGAAAAATTTGAAGTATTAGACTTCTAAATAAGGGGTGAAATCATCAGAAAGAAAAATCAAAGTAGAACTACT  
AATTTTTTAAGAGGAATTTATAACAAATATGGCTAGTTTTCAACTTCAGTACTCAAATTCAATGATTCTTCCTTT  
TATTAAAACCAGTCTCAGATATCATACTGATTTTTAAGTCAACACTATATATTTTTATGATCTTTTCAGTGTGATG  
GCAAGGTGCTTGTTATGTCTAGAAAGTAAGAAAAACAATATGAGGAGACATTCTGTCTTTCAAAGGTAATGGTAC  
ATACGTTCACTGGTCTCTAAGTGTAAGTAGTAAATTTTTGTGATGAATAAAATAATTATCTCCTAATTGTATGT  
TAGAATAAATTTTTATTAGAATAATTTTCACTGAAATTATTTTCTCCAAATAAAAATTAGATGGAAAAATGTGAAA  
AAAAATTATTCATGCTCTCATATATATTTTTAAAAACACTACTTTTTGCTTTTTTTATTTACCTTTTAAGACATTTTCA  
TGCTTCCAGGTAAAAACAGATATTGTACCATGTACCTAATCCAAATATCATATAAACATTTTATTTATAGTTAAT  
AATCTATGATGAAGGTAATTAAAGTAGATTATGGCCTTTTTAAGTATTGCAGTCTAAAACCTCAAAAACTAAAAT  
CATTGTCAAAATTAATATGATTATTAATCAGAATATCAGATATGATTCACTATTTAACTATGATAAATTATGAT  
AATATATGAGGAGGCCTCGCTATAGCAAAAATAGTTAAAATGCTGACATAACACCAAACCTTCATTTTTTAAAAAA  
TCTGTTGTTCCAAATGTGTATAATTTTTAAAGTAATTTCTAAAGCAGTTTATTATAATGGTTTGCCTGCTTAAAAG  
GTATAATTAACTTCTTTTCTTCTACATTGACACACAGAAATGTGTCAATGTAAAGCCAAAACCATCTTCTGT  
GTTTATGGCCAATCTATTCTCAAAGTTAAAAGTAAAATTGTTTCAGAGTCACAGTTCCCTTTATTTACATAAGC  
CCAAACTGATAGACAGTAACGGTGTTTAGTTTTATACTATATTTGTGCTATTTAATTCTTTCTATTTTCACAATT  
ATTAAATTGTGTACACTTTTATTACTTTTTAAAAATGTAGAAATTCCTCATGAACATAACTCTGCTGAATGTAAAA  
GAAAAATTTTTTTTCAAAAATGCTGTTAATGTATACTACTGGTGGTTGATTGGTTTTATTTTATGTAGCTTGACAA  
TTCAGTGACTTAATATCTATTCCATTTGTATTGTACATAAAATTTTCTAGAAATACACTTTTTTCCAAAGTGTA  
GTTTGTGAATAGATTTTAGCATGATGAACTGTCATAATGGTGAATGTTCAATCTGTGTAAGAAAAACAACTAAA  
TGTAGTTGTCACACTAAAATTTAATTGGATATTGATGAAATCATTGGCCTGGCAAATAAAACATGTTGAATTCC  
CC

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**FIGURE 786**

MAFR TICVLVGVFICSICVKGSSQPQARVYLTFDELRETKTSEYFSLSHHPLDYRILLMDEDQDRIYVGSKDHIL  
SLNINNISQEALSVFWPASTIKVEECKMAGKDP THGCGNFVRVIQTFNRTHLYVCGSGAFSPVCTYLNRRGRRSED  
QVFMIDSKCESGKGRC SFNPNVNTV SVMINEELFSGMYIDFMGTDA AIFRSLTKR NAVRTDQHNSKWLSEPMFVD  
AHVIPDGTDPND AKVYFFFKEKLTDNNRSTKQIHSMIARICPNDTGGLRSLVNKWTTF LKARLVCSVTDEDGPET  
HFDELEDVFLLET DNPRTTLVYGIFTTSSSVFKGSAVCVYHLSDIQTVFNGPFAHKEGPNHQLISYQGRIPYPRP  
GTCPGGAFTPNMRTTKEFPDDVVT FIRNHPLMYNSIYPIHKRPLIVRIGTDYKYTKIAVDRVNAADGRYHVLFLG  
TDRGTVQKVVLPTNNSVSGELILEELEVFKNHAPIITMKISSKKQQLYVSSNEGVSQVSLHRCHIYGTACADCC  
LARDPYCAWDGHSCSRFYPTGKRRSRRQDV RHGNPLTQCRGFNLKAYRNAAEIVQYGVKNNTTFLECAPKSPQAS  
IKWLLQKDKDRRKEVKLNERIIATSQGLLIRSVQGS DQGLYHCIATENSFKQTI AKINFKVLDSEMVAVVTDKWS  
PWTWASSVRALPFHPKDIMGAFSHSEMQMINQYCKDTRQQHQQGD ESQKMRGDYGKLKALINSRKSRRNRNQLPE  
S

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**FIGURE 787**

GACGGCCGCCGGAGCCGCGAGGCCAACTGTCGCCTGGTTGGGCCCGGAAATGGGACGTGCGCTTTCTCAGGGAG  
CGTAGAAGCAGCCAGGGCCTCTCCAAGCCGCTGCTGTGACAGAAAGTGAGTGAGCTGCCGGAGGATGTCCACCGC  
CACGACAGTCGCCCCCGCGGGGATCCCCGGCGACCCCGGGCCCTGTGAACCCACCCCCCGGAGGTCTCCAACCC  
CAGCAAGCCCGGCCGCAAGACCAACCAGCTGCAGTACATGCAGAATGTGGTGGTGAAGACGCTCTGGAAACACCA  
GTTTCGCCTGGCCCTTCTACCAGCCCGTGGACGCAATCAAATTGAACCTGCCCGATTATCATAAAAATAATTAAAAA  
CCCAATGGATATGGGGACTATTAAGAAGAGACTAGAAAAATAATTATTATTGGAGTGCAAGCGAATGTATGCAGGA  
CTTCAACACCATGTTTACAAATTGTTACATTTATAACAAGCCACAGATGACATAGTGCTAATGGCCCAAGCTTT  
AGAGAAAATTTTTCTACAAAAGTGCCCCAGATGCCCAAGAGGAAGTTGAATTATTACCCCTGCTCCAAAGGG  
CAAAGGTCGGAAGCCGGCTGCGGGAGCCCAGAGCGCAGGTACACAGCAAGTGGCGGCCGTGTCTCTGTCTCCCC  
AGCGACCCCTTTTCAGAGCGTGCCCCCACCGTCTCCCAGACGCCCGTCTATCGCTGCCACCCCTGTACCAACCAT  
CACTGCAAACGTCACGTCGGTCCCAGTCCCCCAGCTGCCGCCCCACCTCCTCCTGCCACACCCATCGTCCCCGT  
GGTCCCTCCTACGCCGCTGTCTGTCAGAAAAAGGGCGTGAAGCGGAAAGCAGACACAACCACTCCACGACGTC  
GGCCATCACTGCCAGCCGGAGTGAGTCGCCCCCGCGTTGTTCAGACCCCAAGCAGGCCAAAGTGGTGGCCCGGCG  
GGAGAGTGGTGGCCGCCCATCAAGCCTCCCAAGAAGGACCTGGAGGACGGCGAGGTGCCCCAGCACGCAGGCAA  
GAAGGGCAAGCTGTTCGGAGCACCTGCGCTACTGCGACAGCATCCTCAGGGAGATGCTATCCAAGAAGCACGCGGC  
CTACGCCTGGCCCTTCTACAAGCCAGTGGATGCCGAGGCCCTGGAGCTGCACGACTACCACGACATCATCAAGCA  
CCCGATGGACCTCAGCACCGTGAAAAGGAAGATGGATGGCCGAGAGTACCCAGACGCACAGGGCTTTGCTGTGA  
TGTCGGGCTGATGTTCTCGAATTGCTACAAATACAATCCCCAGACCACGAGGTTGTGGCCATGGCCCGGAAGCT  
CCAGGACGTGTTTGAGATGAGGTTTGCCAAGATGCCAGATGAGCCCGTGGAGGACCCGGCGCTGCCTGCCCCGCG  
GGCCCCCATGGTGAGCAAGGGCGCTGAGAGCAGCCGTAGCAGTGAGGAGAGCTCTTCGGACTCAGGCAGCTCGGA  
CTCGGAGGAGGAGCGGGCCACCAGGCTGGCGGAGCTGCAGGAGCAGCTGAAGGCCGTGCACGAGCAGCTGGCCGC  
CCTGTCTCAGGCCCCAGTAAACAAAACAAAGAAGAAGGAAGGAGAAGAAGGAGAAGGAGAAGAAGAAGGACAA  
GGAGAAGGAGAAGGAGAAGCACAAAGTGAAGGCCGAGGAAGAGAAGAAGGCCAAGGTGGCTCCGCTGCCAAGCA  
GGCTCAGCAGAAGAAGGCTCCTGCCAAGAAGGCCAACAGCACGACCACGGCCGGCAGACAGCTGAAGAAAAGGCGG  
CAAGCAGGCATCTGCCTCCTACGACTCAGAGGAAGAGGAGGAGGGCCTGCCCATGAGCTACGATGAAAAGCGCCA  
GCTTAGCCTGGACATCAACCGCTGCCCCGGGAGAAGCTGGGCCGGGTAGTGACATCATCCAATCTCGGGAGCC  
CTCGCTCAGGGACTCCAACCCGACGAGATAGAAATTGACTTTGAGACTCTGAAACCCACCCTTTGCGGGAACCT  
GGAGAGATATGTCAAGTCTTGTTTACAGAAAAAGCAAAGGAAACCGTTCTCAGCAAGCGGGAAGAAACAGGCAGC  
CAAGTCGAAAGAGGAGCTAGCTCAGGAAAAGAAGAAGGAGCTGGAAAAGCGTCTGCAGGATGTCAGCGGGCAGCT  
GAGCAGCAGCAAGAAGCCCGCCGAAAGAGAAGCCCGCTCAGCACCTCAGGGGGCCCGTCCAGGCTCAGCAG  
CAGCAGCTCCTCCGAGTCTGGGAGCAGCAGCTCCAGCGGGTCCAGCTCTGACAGCAGTGACTCAGAATTGAACTGG  
CTTCGGACAGAACAGGACAGATGGATGTGCGACACGCCGAGACTCTGCCGTACCCCTCTGTGGTTTCATATTACTA  
CTTCTGTTCCATGGTGTGTCAGGTCTGCTTCTTAATTCAGTGTTATGATATCTTCCAGTTTTTGCTTTCATAGGTC  
AGAGATCTATCTTGTGTGTGCGTTAGACTTGATGAGAAGGTGTGAACCTCTGCAGAAAGTCTCTTCTTCATCACTG  
AATTCAGTCACTTGGAGATGACAACTTCAAATGCTAACCCGATGACCCAGAAAACCGTGTGAGATTTCGTACCGA  
AGAACCTTGTGGAATCCCTTTGCTTAGGCCCAACCTGGTCGATAGCTCGAGAAAGAATTTTTTCCAAGGAAATGT  
CTCGGATATGGGTACTGTATTTGAAAGCTGTTAGCTTTGTCAACACGCATTGTCCTTGTCAATTTGGGCCCCGAGC  
TCTGACCTCGTGTCTGACGCGGCCACCTCTTTCTGGAGGGGTGAGGACAGATGTGCCTGCTTGTGGAGACCGAG  
GCTGGGCCAAGCGAAGGTCATCGCAGCCCCAGCCCGAGCGTGGAGCCCTTGGGGGGTGGTGGGGTGGGATGT  
GCGTTCTCCGCTCGTGGTGTGTCAGGAGCTCCTCGGAGGGAACAGAGCGGCTGTGTATGCAGCCTGCAGGTTTC  
CATACACTGAAGCTTTTACCTCAACTTTAAAAAAAAAAAAAAAAAGAAGAAAGATTAAAAAAAAAAAAAAAAAAACTCGA  
GGCATCTATG



MSTATTVAPAGIPATPGPVNPPPPPEVSNPSKPGRKTNQLQYMQNVVVKTLWKHQFAWPFYQPVDAIKLNLDPDYHK  
I IKNPMDMGTIKKRLENNYYWSASECMQDFNTMFTNCYIYNKP TDDIVLMAQALEKIFLQKVAQMPQEEVELLP  
APKGGKRKPAAGAQSAGTQQVAAVSSVSPATPFQSVPPPTVSQTPVIAATPVPTITANVTSVPVPPAAAPPPPATP  
IVPVVPTTPPVVKKKGVKRKADTTTTPTTSAITASRSESPPPLSDPKQAKVVARRESGGRPIKPPKKDLEDGEVPQ  
HAGKKGKLSEHLRYCDSILREMLSKKHAAYAWPFYKPVDAEAELELHDYHDI IKHPMDLSTVKRKMDGREYPDAQG  
FAADVRLMFSNCYKYNPPDHEVVAMARKLQDVFEMRF AKMPDEPVEAPALPAPAAPMVSKGAESSRSSEESSSDS  
GSSDSEERATRLAELEQLKAVHEQLAALSQAPVNPKKKKKEKKEKKEKKKDKKEKEKEKHVKVAAAAKKAKVAP  
PAKQAQQKKAPAKKANSTTTAGRQLKKGKKQASASYDSEEEEEGLPMSYDEKRQLSLDINRLPGEKLG RVVHI IQ  
SREPLRDSNPDEIEIDFETLKPTTLRELERYVKSCLOKKQKRPFSASGKKQAAKSKEELAQEKKKELEKRLQDV  
SGQLSSSSKKPARKEKPGSAPSGGPSRLSSSSSSSESGSSSSSGSSSDSDSE

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**FIGURE 789A**

GAATTCGGGAGCCCGCGGAGGCTGCTGCAGCAGCCCGAACC GGCGTCCGAGTCCGGGGAAGGCCCCCGCGAGCG  
CAGGGAGGGGCGGAAAGTTCCGGCGAACTGGGGGAGCGGCAGTGGGAGAGCGTCCGGGCGGGAGGCGGTGGTCCT  
GGGAGCGGCCCGGCGCCCGAAGCCGCCCGAGCTGGTGGGGAGGGTCCCGGCCGGTGGGGCCGGGCTGGCGGGG  
GAGGGGCGCCTGGGGGTGCAAGAGGCGAATTGGCTGCCCGGGGTGCAGGAGGGACAGGTGGTGGCGGGCTGTCAGG  
AAACCTACCTGAACGGGAAGGAGCCCCAGGAGGGAGAGGGACCCGGCGAGGGCTCAGGACCCGGAGGCGCCGGCG  
GAGGAGGAGGTGGTGA CTGGCAGGCCCCGGGCCCCACGGTACCTCCGGGGCTGAAGGGGACGCAGGATGTAGGGGC  
ATGGGGAGTCGGGCGCAGAAGAGTGCGGGGAACGCTGAGCTCTGGGAGCCACTGCCTGAGGGCAGGCCGCGGCCG  
GCGGGAACCTCTTCTGCCGTCTCAGCCTGGGCGTCTGTAAGCTGTGTCTGCGGGGAGGCAGCGGAAGCGGCAG  
AGGCTGGGAGGCGGCAGAAATG CAGCCAGAGGAGGGCACAGGCTGGCTGCTGGAGCTGCTGTCCGAGGTGCAGCTG  
CAACAGTACTTCTGCGGCTCCGAGATGACCTCAACGTACCCGCCTGTCCCACCTTGAGTACGTCAAGAATGAG  
GACCTGGAGAAGATCGGCATGGGTGCGCCTGGCCAGCGGCGGCTGTGGGAGGCTGTGAAGAGGAGGAAGGCCTTG  
TGCAAACGCAAGTCGTGGATGAGTAAGGTGTTCA GTGGAAAGCGACTGGAGGCTGAGTTCCACCTCATCACTCT  
CAGAGCACCTTCCGGAAGACCTCGCCCCCCCCCTGGGGGCCCAGCAGGGGAGGGGGCCCTGCAGAGCCTCACCTGC  
CTCATTGGGGAGAAGGACCTGCGCCTCCTGGAGAAGCTGGGTGATGGTTCTTTGGCGTGGTGCAGGGGCGAG  
TGGGACGCGCCCTCAGGGAAGACGGTGAGTGTGGCTGTGAAGTGCCTGAAGCCCGATGTCTTGAGCCAGCCAGAA  
GCCATGGACGACTTCATCCGGGAGGTCAATGCCATGCAC TCGCTCGACCACCGAAACCTCATCCGCCTCTACGGG  
GTGGTGCTCACGCCGCCCATGAAGATGGTGACAGAGCTGGCACCTCTGGGATCGTTGTTGGACCGGCTACGTAAG  
CACCAGGGCCACTTCTCTGGGGACTCTGAGCCGCTACGCTGTGCAGGTGGCTGAGGGCATGGGCTACCTGGAG  
TCCAAGCGCTTTATTACCGTGACCTGGCTGCCCGCAATCTGCTGTTGGCTACCCGCGACCTGGTCAAGATCGGG  
GACTTTGGGCTGATGCGAGCACTACCTCAGAATGACGACCATTACGTCATGCAGGAACATCGCAAGGTGCCCTTC  
GCCTGGTGTGCCCCCGAGAGCCTGAAGACACGCACCTTCTCCCATGCCAGCGACACCTGGATGTTTCGGGGTGACA  
CTGTGGGAAATGTTACCTACGGCCAGGAGCCCTGGATCGGCCTCAACGGCAGTCAGATCCTGCATAAGATCGAC  
AAGGAGGGGGAGCGGCTGCCCCGGCCCCGAGGACTGTCCCCAGGACATCTACAACGTATGGTCCAGTGCTGGGCT  
CACAAGCCAGAGGACAGACCCACGTTTGTGGCCCTGCGGGACTTCTGCTGGAGGCCAGCCACAGACATGCGG  
GCCCTTCAGGACTTTGAGGAACCGGACAAGCTGCACATCCAGATGAATGATGTATCATCACCGTCATCGAGGGAAGG  
GCCGAGAACTACTGGTGGCGTGGCCAGAACACACGGACGCTGTGTGTGGGGCCCTTCCCTCGCAACGTGGTGACC  
TCCGTGGCCGGCCTGTGCGGCCAGGACATCAGCCAGCCCTGCAGAACAGCTTCATCCACACAGGGCATGGCGAC  
AGTGACCCCCGCCACTGCTGGGGCTTCCCGGACAGGATTGACGAACGTATCTGGGAAACCCCATGGACCCCCC  
GACCTCCTGAGCGTGGAAC TGAGCACCTCCCGGCCCCCCCAGCATCTAGGAGGGGTGAAAAACCAACCTATGAC  
CCTGTGAGCGAGGACCAAGACCCCTTGTCCAGCGACTTCAAGAGGCTGGGCCTGCGGAAGCCAGGCCTGCCCCGA  
GGGCTGTGGCTGGCGAAGCCCTCGGCGCGGGTGCCGGGCACCAAGGCCAGCCGAGGCAGCGGGGCTGAGGTCAG  
CTCATCGACTTCGGTGAGGAGCCCGTGGTCCCGGCCCTACGGCCCTGCCCGCCCTCCCTGGCGCAGCTGGCCATG  
GACGCTGCTCCCTGCTGGACGAGACCCCGCCTCAGAGCCCCACGCGGGCACTGCCCCGGCCCCCTGCACCCACG  
CCTGTGGTGGACTGGGACGCACGCCCCGCTGCCCCCCCCGCCCCGCTATGACGACGTGGCCCAGGATGAGGATGAC  
TTTGAGATCTGCTCCATCAACAGCACCCCTCGTGGGCGCGGGGTCCCTGCCGGGCCAGCCAGGGCCAGACCAAC  
TACGCCTTTGTGCTGAGCAGGCGCGGCCGCCCTCCCTGGAGGACAACCTGTTCTCCCGCCCCAGGGTGGG  
GGCAAGCCGCCAGCTCCGCACAGACCGCAGAGATCTTCCAGGCGCTACAGCAGGAGTGCATGAGGCAACTGCAG  
GCTCCGGGCTCCCCGGCCCCCTCTCCAGCCCCGGGGGTGACGACAAGCCCCAGGTGCCTCCTCGGGTACCCATC  
CCCCCTCGGCCACGCGCCACACGTCCAGCTGTCTCCAGCCCCCCCCGGGCGAGGAGGAGACCAGCCAGTGGCCT  
GGACCTGCTTCCCCCTCCCGGGTGCCTCCGCGGGAGCCCCCTGTCCCCTCAAGGCTCGAGGACACCCAGCCCCCTG  
GTACCACCTGGCAGCTCCCCGCTGCCACCCCGGCTCTCAAGCTCACCTGGGAAGACCATGCCACCACCCAGAGC  
TTTGCTCAGACCCCAAGTACGCCACCCCCAGGTGATCCAGGCCCTGGCGCGGGTGGTCCCTGCATCCTGCC  
ATCGTCCGGGATGGCAAGAAGGT CAGCAGCACCCACTATTACTTGCTGCCCGAGCGACCATCCTACCTGGAGCGC  
TACCAGCGCTTCTGCGTGAGGCCCAGAGCCCCGAGGAGCCTACCCCTGCCTGTGCCTCTGCTGCTGCCCCCA  
CCAGCACCCAGCCCCCGCGCCCCCACGGCCACCGTGCGGCCGATGCCCCAGGCTGCCTTGAGCCCCAAGGCC  
AACTTCTCCACCAACAACAGCAACCCAGGGGCCCCGGCCACCACCCCGAGGGCCACTGCTCGGCTGCCACAGAGG  
GGCTGCCCTGGCGATGGGCCAGAGGCGGGCCGGCCAGCAGACAAGATCCAGATGGCCATGGTGCATGGGGTGACC  
ACAGAGGAGTGCCAGGCGGCCCTGCAGTGCCACGGCTGGAGCGTG CAGAGGGCTGCCAGTATCTGAAGGTGGAG

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**FIGURE 789B**

CAGCTCTTCGGGCTGGGTCTGCGGCCAGAGGGGAGTGCCACAAAGTGCTGGAGATGTTGACTGGAACCTGGAG  
CAGGCCGGCTGCCACCTTCTGGGCTCCTGGGGCCCTGCCCACCACAAGCGCTGAGATGCGTCTGGAGAGCCAGAG  
GGCCTGCCTGAAGGAATCACCTGAGCCTGTCCGTCCACCAGGAGTGGGGAGATGCCCCATCCAGTCCTGGAGGA  
CCCGCTGCTCCTGCTGCTCCCGGGGATGGAGCAAGGCCAAGGCTGCGGGAGGCTGGGAGCCCTGCCCTGCCCATC  
CCTCCCGCACCAAGTGCTGTCCCTGCACACTTTGGTTTCAGTCCCGGTGCCCCTGCCAAGATGTGGAAGGGGCCGGG  
TGAAGACAGGCTTGAGGGCCGCCCCAGCAGGCTCTGGGTATGACCTGCCTCTGGCCCTGGTCTGGGCGGGGCCT  
GTGGGTGGAGTAGTACCCCCAGGCCCTGCCCTGGGTGACAGACTGGGAGGAAACCAGGCTGGACCTGGGCAGGCG  
GGATGTGTTGGCCACAGGGAGAGGCGGACCGGCACCCGGTGGGACCTCCTAGGACTGGGCCTTCTTCCAGGGGGC  
CCCTGGCAGCAGCTGGGGTGTGCGGCAGAATGTGACTTGTGGCCTTACCATGGACTTGAATGGGACTTGGCTGGC  
CTCAGGATCTTGTGCCTGGAAATAGCCTGAGGTGGCTCAGGAAGCGGAGAAAGGGTGCCAGACCATTCTCTGGCG  
GGGACCAGGGCCCAAGGCCAGGGCTGGAAGGAGACCAAGGGGCAGCCCCTGGAGGACATCAGTGCTTCCTCTTCC  
ACCCAATTCCCCCACGCGGTTCCATGTTTTCCCACCAGCCTGTTGGGCGAAGTTGCTGCTCCGGCATTAGTCCT  
GCTTCTTCCAGAGAAATAAAGTTAGTTTCTATTTTATGTTAAAAAAA

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**FIGURE 790**

MQPEEGTGWLLELLSEVQLQQYFLRLRDDLNVTLSHFYVKNEDLEKIGMRPGQRRLWEAVKRRKALCKRKSW  
MSKVFSGKRLEAEFPPHHSQSTFRKTSPAPGGPAGEGLQSLTCLIGEKDLRLLEKLGDGSFGVVRGEWDAPSG  
KTVSVAVKCLKPDVLSQPEAMDDFIREVNHMSLDHRNLIRLYGVVLTTPMKMVTTELAPLGSLLDRLRKHQGHFL  
LGTLSRYAVQVAEGMGYLESKRFIHRDLAARNLLLATRDLVKIGDFGLMRALPQNDDHYVMQEHRKVPPFAWCAPE  
SLKTRTFSHASDTWMFGVTLWEMFTYQEPWIGLNGSQILHKIDKEGERLPRPEDCPQDIYNVMVQCWAHKPEDR  
PTFVALRDFLLEAQPTDMRALQDFEEDPKLHIQMNDVITVIEGRAENYWWRGQNTRTLCVGPFFPRNVVTSVAGLS  
AQDISQPLQNSFIHTGHGDS DPRHCWGFPDRIDELYLGNPMDPPDLLSVELSTSRPPQHLGGVKKPTYDPVSEDQ  
DPLSSDFKRLGLRKPLRGLWLA KPSARVPGTKASRGSGAEVTLIDFGEEPVPALRPCPPSLAQ LAMDACSLL  
DETTPQSPTRALPRPLHPTPVVDWDARPLPPPPAYDDVAQDEDDFEIC SINSTLVGAGVPAGFSQGQTNYAFVPE  
QAREPPPLEDNLFLLPPQGGGKPPSSAQTAEIFQALQQECMRQLQAPGSPAPSPSPGGDDKPQVPPRPVIPP RPTR  
PHVQLSPAPPGEETSQWPGPASPPRVPPREPLSPQGSRTPSPLVPPGSSPLPRLSSSPGKTMTTQSFASDPK  
YATPQVIQAPGAGGPCILPIVRDGKKVSSTHYLLPERPSYLERYQRFLEAQSPPEPTPLPVPLLLPPPSTPAP  
AAPTATVRPMPQAALDPKANFSTNNSNPGARPPPPRATARLPQRGCPGDGPEAGRPADKIQMAMVHGVTTEECQA  
ALQCHGWSVQRAAQYLKVEQLFGLGLRPRGECHKVLEMFWDWNLEQAGCHLLGSWGPAAHKKR

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**FIGURE 791A**

CAGTCGCTCCGAGCGGCCGCGAGCAGAGCCGCCAGCCCTGTCAGCTGCGCCGGGACGATAAGGAGTCAGGCCAG  
GGCGGGATGACACTCATTGATTCTAAAGCATCTTTAATCTGCCAGGCGGAGGGGGCTTTGCTGGTCTTTCTTGGA  
CTATTCCAGAGAGGACAACCTGTCATCTGGGAAGTAACAACGCAGGATGCCCCCTGGGGTGGACTGCCCCATGGAA  
TTCTGGACCAAGGAGGAGAATCAGAGCGTTGTGGTTGACTTCCTGCTGCCACAGGGGTCTACCTGAACTTCCCT  
GTGTCCCGCAATGCCAACCTCAGCACCATCAAGCAGCTGCTGTGGCACCGCGCCAGTATGAGCCGCTCTTCCAC  
ATGCTCAGTGGCCCCGAGGCCTATGTGTTACCTGCATCAACCAGACAGCGGAGCAGCAAGAGCTGGAGGACGAG  
CAACGGCGTCTGTGTGACGTGCAGCCCTTCCCTGCCCGTCTGCGCCTGGTGGCCCGTGAGGGCGACCGCGTGAAG  
AAGCTCATCAACTCACAGATCAGCCTCCTCATCGGCCAAAGGCCTCCACGAGTTTGACTCCTTGTGCGACCCAGAA  
GTGAACGACTTTTCGCGCCAAGATGTGCCAATTCTGCGAGGAGGCGGCCGCCGCCGGCAGCAGCTGGGCTGGGAG  
GCCTGGCTGCAGTACAGTTTCCCCCTGCAGCTGGAGCCCTCGGCTCAAACCTGGGGGCCTGGTACCCTGCGGCTC  
CCGAACCGGGCCCTTCTGGTCAACGTTAAGTTTGAGGGCAGCGAGGAGAGCTTACCTTCCAGGTGTCCACCAAG  
GACGTGCCGCTGGCGCTGATGGCCTGTGCCCTGCGGAAGAAGGCCACAGTGTTCCGGCAGCCGCTGGTGGAGCAG  
CCGGAAGACTACACGCTGCAGGTGAACGGCAGGCATGAGTACCTGTATGGCAACTACCCGCTCTGCCAGTTCAG  
TACATCTGCAGCTGCCTGCACAGTGGGTTGACCCCTCACCTGACCATGGTCCATTCTCTCCATCCTCGCCATG  
CGGGATGAGCAGAGCAACCCTGCCCCCAGGTCCAGAAACCGGTGCCAAACCACCTCCCATTCTGCGAAGAAG  
CCTTCTCTGTGTCCCTGTGGTCCCTGGAGCAGCCGTTCGCGATCGAGCTCATCCAGGGCAGCAAAGTGAACGCC  
GACGAGCGGATGAAGCTGGTGGTGCAGGCCGGGCTTTTCCACGGCAACGAGATGCTGTGCAAGACGGTGTCCAGC  
TCGGAGGTGAGCGTGTGCTCGGAGCCCGTGTGGAAGCAGCGGCTGGAGTTCGACATCAACATCTGCGACCTGCCC  
CGCATGGCCCGTCTCTGCTTTGCGCTGTACGCCGTGATCGAGAAAGCCAAGAAGGCTCGCTCCACCAAGAAGAAG  
TCCAAGAAGGCGGACTGCCCCATTGCCTGGGCCAACCTCATGCTGTTTGACTACAAGGACCAGCTTAAGACCGGG  
GAACGCTGCCTCTACATGTGGCCCTCCGTCCAGATGAGAAGGGCGAGCTGCTGAACCCACGGGCACTGTGCGC  
AGTAACCCCAACACGGATAGCGCCGCTGCCCTGCTCATCTGCCCTGCCGAGGTGGCCCCGCACCCCGTGTACTAC  
CCCGCCCTGGAGAAGATCTTGAGCTGGGGCGACACAGCGAGTGTGTGCATGTACCGAGGAGGAGCAGCTGCAG  
CTGCGGGAAATCCTGGAGCGGCGGGGTCTGGGGAGCTGTATGAGCACGAGAAGGACCTGGTGTGGAAGCTGCGG  
CATGAAGTCCAGGAGCACTTCCCGAGGCGCTAGCCCGGCTGCTGCTGGTACCAAGTGAACAAGCATGAGGAT  
GTGGCCAGATGCTCTACCTGCTGTGCTCCTGGCCGAGCTGCCCGTCTGAGCGCCCTGGAGCTGCTAGACTTC  
AGCTTCCCCGATTGCCACGTAGGCTCCTTCGCCATCAAGTCGCTGCGGAAACTGACGGACGATGAGCTGTTCCAG  
TACCTGCTGCAGCTGGTGCAGGTGCTCAAGTACGAGTCTTACCTGGACTGCGAGCTGACCAAATTCCTGCTGGAC  
CGGGCCCTGGCCAACCGCAAGATCGGCCACTTCCCTTTTCTGGCACCTCCGCTCCGAGATGCACGTGCCGTCGGTG  
GCCCTGCGCTTCGGCCTCATCCTGGAGGCCTACTGCAGGGGACGACCCACCACATGAAGGTGCTGATGAAGCAG  
GGGGAAGCACTGAGCAAACCTGAAGGCCCTGAATGACTTCGTCAAGCTGAGCTCTCAGAAGACCCCCAAGCCCCAG  
ACCAAGGAGCTGATGCACCTTGTGCATGCGGCAGGAGGCCTACCTAGAGGCCCTCTCCACCTGCAGTCCCCACTC  
GACCCAGCACCTTGCTGGCTGAAGTCTGCGTGGAGCAGTGACCTTCATGGACTCCAAGATGAAGCCCCCTGTGG  
ATCATGTACAGCAACGAGGAGGCAGGCAGCGCGGCAGCGTGGGCATCATCTTTAAGAACGGGGATGACCTCCGG  
CAGGACATGCTGACCTGCAGATGATCCAGCTCATGGACGTCCTGTGGAAGCAGGAGGGGCTGGACCTGAGGATG  
ACCCCTATGGCTGCCCTCCCACCGGGGACCGCACAGGCCTCATTGAGGTGGTACTCCGTTTACACACCATCGCC  
AACATCCAACCAACAAGAGCAACATGGCAGCCACAGCCGCTTCAACAAGGATGCCCTGCTCAACTGGCTGAAG  
TCCAAGAACCCGGGGGAGGCCCTGGATCGAGCCATTGAGGAGTTCACCTCTCCTGTGCTGGCTATTGTGTGGCC  
ACATATGTGCTGGGCATTGGCGATCGGCACAGCGACAACATCATGATCCGAGAGAGTGGGCAGCTGTTCCACATT  
GATTTTGGCCACTTTCTGGGGAATTTCAAGACCAAGTTTGAATCAACCGCGAGCGTGTCCCATTATCTCACC  
TATGACTTTGTCCATGTGATTGAGCAGGGGAAGACTAATAATAGTGAGAAATTTGAACGGTTCCGGGGCTACTGT  
GAAAGGGCCTACACCATCCTGCGGCGCCACGGGCTTCTCTTCTCCACCTCTTTGCCCTGATGCGGGCGGCAGGC  
CTGCCTGAGCTCAGCTGCTCCAAAGACATCCAGTATCTCAAGGACTCCCTGGCACTGGGGAAAACAGAGGAGGAG  
GCACTGAAGCACTTCCGAGTGAAGTTTAAACGAAGCCCTCCGTGAGAGCTGGAAAACCAAAGTGAAGTGGCTGGCC  
CACAACGTGTCCAAAGACAACAGGCAGTAGTGGCTCCTCCCAGCCCTGGGCCCAAGAGGAGGCGGCTGCGGGTGC  
TGGGGACCAAGCACATTGGTCTTAAAGGGGCTGAAGAGCCTGAACTGCACCTAACGGGAAAGAACCAGACATGGCT  
GCCTTTTGTTTTACACTGGTTATTTATTTATGACTTGAAATAGTTTAAAGGAGCTAAACAGCCATAAACCGGAAACGC  
CTCCTTCATTACGCGCGGTGCTGGGCCCCCGAGGCTGCACCTGGCTCTCGGCTGAGGATTGTACCCCCAAGTC

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**FIGURE 791B**

TTCCAGCTGGTGGATCTGGGCCCAGCAAAGACTGTTCTCCTCCCGAGGGAACCTTCTTCCCAGGCCTCCCGCCAG  
ACTGCCTGGGTCTTGGCGCCTGGCGGTACCTGGTGCCTACTGTCCGACAGGATGCCTCGATCCTCGTGCGACCC  
ACCCTGTGTATCCTCCCTAGACTGAGTTCTGGCAGCTCCCCGAGGCAGCCGGGGTACCCTCTAGATTCAAGGGATG  
CTTGCTCTCCACTTTTCAAGTGGGTCTTGGGTACGAGAATTCCCTCATCTTTCTCTACTGTAAAGTGATTTTGT  
TGCAGGTAAGAAAAATAATAGATGACTCACCACACCTCTACGGCTGGGGAGATCAGGCCCAGCCCCATAAAGGAGA  
ATCTACGCTGGTCTCAGGACGTGTTAAAGAGATCTGGGCCTCATGTAGCTCACCCCGGTCACGCATGAAGGCAA  
AAGCAGGTCAGAAGCGAATACTCTGCCATTATCTCAAAAATCTTTTTTTTTTTTTTTTTTGGAGATGGGGTCTTCCT  
CTGTTGCCCAGGCTGGAGTGCAGTGGTGAATCTTGGCTCACTGTAACCTCCGCCTCCCAGGTTCAAGTGATTCT  
TCTTGCTCAGCCTCCTGAGTAGCTGGGATTACAGGTGTGCACCACCCGTACCCAGCTAATTTTTGTATTTTAGT  
AGAGACGGGGGTTTCACCATGTTGGCTGGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCCGCCTGAGCCT  
CCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGCCCGGCCACTCTGCCATTGTCTAAGCCACCTCTGAAAG  
CAGGTTTTAACAAAAGGATGAGGCCAGAACTCTTCAGAACCATCACCTTTGGGAACCTGCTGTGAGAGTGCTGA  
GGTACCAGAAGTGTGAGAACGAGGGGGCGTGCTGGGATCTTTCTCTCTGACTATACTTAGTTTGAAATGGTGCAG  
GCTTAGTCTTAAGCCTCCAAAGGCCTGGATTTGAGCAGCTTTAGAAATGCAGGTTCTAGGGCTTCTCCCAGCCTT  
CAGAAGCCAACTAACTCTGCAGATGGGGCTAGGACTGTGGGCTTTTAGCAGCCCACAGGTGATCCTAACATATCA  
GGCCATGGACTCAGGACCTGCCCGGTGATGCTGTTGATTTCTCAAAGGTCTTCCAAAACCTCAACAGAGCCAGAAG  
TAGCCGCCCCTCAGCGGCTCAGGTGCCAGCTCTGTTCTGATTCACCAGGGGTCCGTCAGTAGTCATTGCCACCC  
GCGGGGCACCTCCCTGGCCACACGCCTGTTCCCAGCAAGTGCTGAAACTCACTAGACCGTCTGCCTGTTTCGAAA  
TGGGGAAAGCCGTGCGTGCGCGTTATTTATTTAAGTGCGCCTGTGTGCGCGGGTGTGGGAGCACACTTTGCAAAG  
CCACAGCGTTTCTGGTTTTGGGTGTACAGTCTTGTGTGCCTGGCGAGAAGAATATTTTCTATTTTTTTAAGTCAT  
TTCATGTTTCTGTCTGGGGAAGGCAAGTTAGTTAAGTATCACTGATGTGGGTTGAGACCAGCACTCTGTGAAACC  
TTGAAATGAGAAGTAAAGGCAGATGAAAAGAAAAAAAAAAAAAAAAA

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**FIGURE 792**

MPPGVDCPMEFWTKREENQSVVVDLFLPTGVYLNFPVSRNANLSTIKQLLWHRAQYEPLFHMLSGPEAYVFTCINQ  
TAEQQELEDEQRRLCDVQPFLPVLRLVAREGDRVKKLINSQISLLIGKGLHEFDSLCDPEVNDFRAKMCQFCEEA  
AARRQQLGWEAWLQYSFPLQLEPSAQTWGPGLRLPNRALLVNVKFEGSEESFTFQVSTKDVPLALMACALRKKA  
TVFRQPLVEQPEDYTLQVNGRHEYLYGNYPLCQFYICSLHSGLTPHLTMVHSSSILAMRDEQSNPAPQVQKPR  
AKPPPIPAKKPSSVSLWSLEQPFRIELIQGSKVNADERMKLVVQAGLFHGNEMLCKTVSSSEVSVCSEP VWKQRL  
EFDINICDLPRMARLCFALYAVIEKAKKARSTKKKSKKADCP IAWANLMLFDYKDQLKTGERCLYMWPSVPDEKG  
ELLNPTGTVRSNPNTDSAAALLICLPEVAPHPVYYPALEKILELGRHSECVHVTEEEQLQLREILERRGSGELYE  
HEKDLVWKL RHEVQE HFP EALARLLLVT KWNKHEDVAQMLYLLCSWP ELPVLSALELLDFSFPDCHVGSFAIKSL  
RKLTDDEL FQYLLQLVQVLKYESYLDCELT KFLLDRALANRKIGHFLFWHLRSEMHVPSVALRFG LILEAYCRGS  
THHMKVLMKQGEALSKLKALNDFVKLSSQKTPKPQTKELMHLCMRQEAYLEALSHLQSPLDPSTLLAEVCVEQCT  
FMD SKMKPLWIMYSNEEAGSGGSVG IIFKNGDDL RQDMLTLQMIQLMDVLWKQEGDLRMT PYGCLPTGDR TGLI  
EVVLRSDTIANIQLNKSNMAATAAFNKDALLNWLKSKNPGEALDRAIEEFTLSCAGYCVATYVLGIGDRHSDNIM  
IRESGQLFHIDFGHFLGNFKTKFGINRERVFFILTYDFVHVIQQGKTNNSEKFERFRGYCERAYTILRRHGLLFL  
HLFALMRAAGLPELSCSKDIQYLKDSLALGKTEEEALKHFRVKFNEALRESWKTKVNWLAHNVSKDNRQ

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**FIGURE 793**

CGCTCCTCGGGCTGCCCCTCGGTTGACAATGGTCTCCAGGATGGTCTCTACCATGCTATCTGGCCTACTGTTTTG  
GCTGGCATCTGGATGGACTCCAGCATTTGCTTACAGCCCCCGGACCCCTGACCGGGTCTCAGAAGCAGATATCCA  
GAGGCTGCTTCATGGTGTATGGAGCAATTGGGCATTGCCAGGCCCCGAGTGGAATATCCAGCTCACCAGGCCAT  
GAATCTTGTGGGCCCCCAGAGCATTGAAGGTGGAGCTCATGAAGGACTTCAGCATTTGGGTCTTTTGGCAACAT  
CCCCAACATCGTGGCAGAGTTGACTGGAGACAACATTCCCTAAGGACTTTAGTGAGGATCAGGGGTACCCAGACCC  
TCCAAATCCCTGTCCTGTTGGAAAAACAGATGATGGATGTCTAGAAAACACCCCTGACACTGCAGAGTTCAGTCG  
AGAGTTCCAGTTGCACCAGCATCTCTTTGATCCGGAACATGACTATCCAGGCTTGGGCAAGTGGAACAAGAACT  
CCTTTACGAGAAGATGAAGGGAGGAGAGAGACGAAAGCGGAGGAGTGTCAATCCATATCTACAAGGACAGAGACT  
GGATAATGTTGTTGCAAAGAAGTCTGTCCCCCATTTTTTCAGATGAGGATAAGGATCCAGAGTAAAGAGAAGATGC  
TAGACGAAAACCCACATTACCTGTTAGGCCTCAGCATGGCTTATGTGCACGTGTAAATGGAGTCCCTGTGAATGA  
CAGCATGTTTCTTACATAGATAATTATGGATACAAAGCAGCTGTATGTAGATAGTGTATTGTCTTCACACCGATG  
ATTCTGCTTTTTTGCTAAATTAGAATAAGAGCTTTTTTGTCTTGGGTTTTTAAATGTGAATCTGCAATGATCA  
TAAAAATTAAATGTGAATGTCAACAATAAAAAGCAAGACTATGAAAGGCTCAGATTTCTTCAGTTTAAATGG  
TGTCTGAGGTTGTACTATTTTGGCCAAGTCTGTAGAAAGCTGTCATTTGATTTTGATTATGTAGTTCATCCAGCC  
CTTGGGCATTGTTATACACCAGTAAAGAAGGCTGTACTCAAGAGGAGGAGCTGACACATTTCACTTGGCTGCGTC  
TTAATAAACATGAATGCAAGCATTGGC



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**FIGURE 794**

MVSRMVSTMLSGLLFWLASGWTPAFAYSPRTPDRVSEADIQRLLHGVMEQLGIARPRVEYPAHQAMNLVGPOSIE  
GGAHEGLQHLGPFGNIPNIVAELTGDNIPKDFSEDQGYDPPNCPVGKTDDGCLENTPDTAEFSREFQLHQHLF  
DPEHDYPGLGKWNKKLLYEKMKGGERRKRRSVNPYLQGQRLDNVAKKSVPHFSDDEDKDPE

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**FIGURE 795**

GCGAGGCGCCCGAAGCCGTCGCGGCGGGGACCATGTTGCTTCCGAACATCCTGCTCACCGGTACACCAGGGGTTG  
GAAAAACCACACTAGGCAAAGAACTTGCGTCAAAATCAGGACTGAAATACATTAATGTGGGTGATTTAGCTCGAG  
AAGAGCAATTGTATGATGGCTATGATGAAGAGTATGACTGTCCCATTTTAGATGAAGACAGAGTAGTTGATGAGT  
TAGATAACCAAAATGAGAGAAGGTGGAGTTATTGTTGATTACCATGGTTGTGATTTCTTCCCTGAACGCTGGTTTC  
ATATAGTTTTTGTGCTGAGAACAGATACCAATGTATTGTACGAAAGACTTGAAACAAGGGGTTATAATGAGAAGA  
AACTAACAGACAATATTCAGTGTGAGATTTTTCAAGTTCTTTATGAAGAAGCCACAGCATCCTACAAGGAAGAAA  
TCGTGCATCAGCTGCCCAGTAATAAACCAGAAGAGCTAGAAAAATAATGTAGATCAGATCTTGAAATGGATTGAGC  
AGTGGATCAAAGATCATAACTCTTGACTTATAAGGCTAGCTACTTAATAATCACTCTTGTTGATATCTCTGCCGA  
CATCATAGAAATTGTTCAAGTGTGAGTAACACTTTATTAAAATCATGTTGCAGAACCAGCAGGTGGATAGTATAT  
AGGTTTATGCCTGTGTTTCTTTTTCTCCATGAGAAAGCTAAACATGAAATATAATGAATATAGTATTATTAAGGA  
TTGAGACAAAACTGTGATTTTAATACTTAAATTGCTAAAGAATAAATAAATCTGACAAAATGGGTGGATATCTT  
TTAAGTTTATTACAGAAAAAAATGCAGATGATCTCTTAAAATAAACTAAAGATAAAGCAAAAAAA

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**FIGURE 796**

MLLPNILLTGTPGVGKTTLGKELASKSGLKYINVGDLAREEQLYDGYDEEYDCPILDEDRVVDELDNQMREGGVI  
VDYHGCDFFPERWFHIVFLRTDTNVLYERLETRGYNEKKLTDNIQCEIFQVLYEEATASYKEEIVHQLPSNKPE  
ELENNVDQILKWIEQWIKDHNS

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**FIGURE 797**

CAGTGCCTTGGAATGACCAGGGCTCCAGAAAGAGATGTTCCTTGTGGCTGGGGGCCCCTGTGCCTGACATTCCTC  
CTGACTCTGCGGTGGAGCTGTGGAAGCCAGGCGCACAGGATGCAAGCAGCCAGGCCCAGGGAGGCAGCAGCTGCA  
TCCTCAGAGAGGAAGCCAGGATGCCCCACTCTGCTGGGGGTACTGCAGGGGTGGGGCTGGAGGCTGCAGAGCCCCA  
CAGCCCTGCTCACCAGGGCAGAGCCCCCTTCAGAACCCACAGAGATCCGTCCACAAAAGCGGAAAAAGGGGCCAG  
CCCCAAAATGCTGGGGAACGAGCTATGCAGCGTGTGTGGGGACAAGGCCTCGGGCTTCCACTACAATGTTCTGA  
GCTGCGAGGGCTGCAAGGGATTCTTCCGCCGCGAGCGTCATCAAGGGAGCGCACTACATCTGCCACAGTGGCGGCC  
ACTGCCCCATGGACACCTACATGCGTCGCAAGTGCCAGGAGTGTCTGGCTTCGCAAATGCCGTCAGGCTGGCATGC  
GGGAGGAGTGTGTCTCTGTCAGAAGAACAGATCCGCCTGAAGAACTGAAGCGGCAAGAGGAGGAACAGGCTCATG  
CCACATCCTTGCCCCCAGGCGTTCTTCACCCCCCTCCTGCCCCAGCTCAGCCCGGAACAACCTGGGCATGA  
TCGAGAAGCTCGTCGCTGCCCAGCAACAGTGTAACCGGCGCTCCTTTTCTGACCGGCTTCGAGTCACGCCCTTGGC  
CCATGGCACCCAGATCCCCATAGCCGGGAGGCCCCGTCAGCAGCGCTTTGCCCACTTCACTGAGCTGGCCATCGTCT  
CTGTGCAGGAGATAGTTGACTTTGCTAAACAGCTACCCGGCTTCCTGCAGCTCAGCCGGGAGGACCAGATTGCC  
TGCTGAAGACCTCTGCGATCGAGGTGATGCTTCTGGAGACATCTCGGAGGTACAACCCTGGGAGTGAGAGTATCA  
CCTTCCTCAAGGATTTTCAATTATAACCGGGAAGACTTTGCCAAAGCAGGGCTGCAAGTGAATTCATCAACCCCA  
TCTTCGAGTTCTCCAGGGCCATGAATGAGCTGCAACTCAATGATGCCGAGTTTGCCTTGCTCATTGCTATCAGCA  
TCTTCTCTGCAGACCGGCCCCAACGTGCAGGACCAGCTCCAGGTGGAGAGGCTGCAGCACACATATGTGGAAGCCC  
TGATGCCTACGTCTCCATCCACCATCCCCATGACCGACTGATGTTCCACGGATGCTAATGAACTGGTGAGCC  
TCCGGACCCTGAGCAGCGTCCACTCAGAGCAAGTGTTTGCCTGCGTCTGCAGGACAAAAGCTCCCACCGCTGC  
TCTCTGAGATCTGGGATGTGCACGAATGATGACTGTTCTGTCCCCATATTTTCTGTTTTCTTGGCCGGATGGCTGAGG  
CCTGGTGGCTGCCTCCTAGAAGTGGAACAGACTGAGAAGGGCAAACATTCTGGGAGCTGGGCAAGGAGATCCTC  
CCGTGGCATTAAAAGAGAGTCAAAGGGT

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**FIGURE 798**

MSLWLGAPVPDIPPDSAVELWKPGAQDASSQAQGGSSCILREEARMPHSAGGTAGVGLAAEPTALLTRAEPFSE  
PTEIRPQKRKKGPAPKMLGNELCVCGDKASGFHYNVLSCEGCKGFFRRSVIKGAHYICHSGGHCPMDTYMRRKC  
QECRLRKCRQAGMREECVLSEEQIRLKKLKRQEEEAHATSLPPRRSSPPQILPQLSPEQLGMIEKLVAQQQCN  
RRSFSDRLRVTPWPMAPDPSREARQQRFAHFTELAIVSVQEIVDFAKQLPGFLQLSREDQIALLKTS AIEVMLL  
ETSRRYNPGSESI TFLKDFSYNREDFAKAGLQVEFINP IFEFSRAMNELQLNDAEFALLIAISIFSADRPNVQDQ  
LQVERLQHTYVEALHAYVSIHHPHDLRMFPRMLMKLVSLRTLSSVHSEQVFALRLQDKKLPLLSEIWDVHE

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**FIGURE 799**

GGCACGAGGCTGCGGCCGCGAGTAGCCGGAGCCGGAGCCGCGAGCCACCGGTGCCTTCCTTTCCCGCCGCGCCAG  
CCGCCGTCCGGCCTCCCTCGGGCCCGAGCGCAGACCAGGCTCCAGCCGCGCGGCGCCGGCAGCCTCGCGCTCCCT  
CTCGGGTCTCTCTCGGGCCTCGGGCACCGCGTCCTGTGGGCGGCCGCTGCCTGCCCCGCCCGCCGAGCCCCCTT  
GCCTGCCGGCCCCCTGGGCGGCCCGTGCC**ATGGG**CACCGACAGCCGCGCGGCCAAGGCGCTCCTGGCGCGGGCCCCG  
CACCTGACCTGCAGACGGGGAACCTGCTGAACTGGGGCCGCTGCGGAAGAAGTGCCCGTCCACGCACAGCGA  
GGAGCTTCATGATTGTATCCAAAAACCTTGAATGAATGGAGTTCCCAAATCAACCCAGATTTGGTCAGGGAGTT  
TCCAGATGTCTTGGAATGCACTGTATCTCATGCAGTAGAAAAAGATAAATCCTGATGAAAGAGAAGAAATGAAAGT  
TTCTGCAAAACTGTTTCATTGTAGAACTCAAACCTCTTCATCATCAACTAGAAGTGCAGTTGACATGGCCTGTTTCACT  
CCTTGGAGTTGCACAGCTGGATTCTGTGATCATTGCTTACCTCCTATTGAAGATGGAGTTAATCTTTCCCTTGGAG  
GCATTTACAGCCTTACTGGGAGGAATTAGAAAACCTTAGTTTACAGAGCAAAAAGATTGTTGCCATAGGTACCTCTGA  
TCTAGACAAAACACAGTTGGAACAGCTGTATCAGTGGGCACAGGTAAAACCAAATAGTAACCAAGTTAATCTTGC  
CTCCTGCTGTGTGATGCCACCAGATTTGACTGCATTTGCTAAACAATTTGACATACAGCTGTTGACTCACAATGA  
TCCAAAAGAACTGCTTTCTGAAGCAAGTTTCCAAGAAGCTCTTCAGGAAAGCATTCTGACATTCAAGCGCACGA  
GTGGGTGCCGCTGTGGCTACTGCGGTATTCGGTCATTGTGAAAAGTAGAGGAATTATCAAATCAAAGGCTACAT  
TTTACAAGCTAAAAGAAGGGGTTCT**TAACT**GACTTAGGAGCATAACTTACCTGTAATTTCTTCAATATGAGAGA  
AAATTGAGATGTGTAAAATCTAGTTACTGCCTGTAAATGGTGTCAATTGAGGCAGATATTCTTTCGTCATATTTGA  
CAGTATGTTGTCGTCAAGTTTTAAATACTTATCTTGCTCCATATCAATCCATTCTCATGAACCTCTGTATTGC  
TTTCCTTAAACTATTGTTTTCTAATTGAAATTGTCTATAAAGAAAATACTTGCAATATATTTTCTTTATTTTT  
ATGACTAATATAAATCAAGAAAATTTGTTGTTAGATATATTTTGGCCTAGGTATCAGGGTAATGTATATACATAT  
TTTTTATTTCCAAAAAAATTCATTAATTGCTTCTTAACTCTTATTATAACCAAGCAATTTAATTACAATTGTTA  
AAACTGAAATACTGGAAGAAGATATTTTCTGTCAATTGATGAGATATATCAGAGTAACTGGAGTAGCTGGGATT  
TACTAGTAGTGTAATAAAATTCACCTCTTCAATAC

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**FIGURE 800**

MGTDSPRAAKALLARARTLHLQTGNLLNWGRLRKKCPSTHSEELHDCIQKTLNEWSSQINPDLVREFPDVLECTVS  
HAVEKINPDEREEMKVSAKLFIVESNSSSSSTRSAVDMACSVLGVAQLDSVIIASPPIEDGVNLSLEHLQPYWEEL  
ENLVQSKKIVAIGTSDLDKTQLEQLYQWAQVKPNSNQVNLASCCVMPPDLTAFQFDIQLLTHNDPKELLSEAS  
FQEALQESIPDIQAHEWVPLWLLRYSVIVKSRGIIKSKGYILQAKRRGS

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**FIGURE 801**

AGACACCTCTGCCCTCACCATGAGCCTCTGGCAGCCCCTGGTCCTGGTGCTCCTGGTGCTGGGCTGCTGCTTTGC  
TGCCCCCAGACAGCGCCAGTCCACCCTTGTGCTCTTCCCTGGAGACCTGAGAACCAATCTCACCGACAGGCAGCT  
GGCAGAGGAATACCTGTACCGCTATGGTTACACTCGGGTGGCAGAGATGCGTGGAGAGTGC AAAATCTCTGGGGCC  
TGCGCTGCTGCTTCTCCAGAAGCAACTGTCCCTGCCCCGAGACCGGTGAGCTGGATAGCGCCACGCTGAAGGCCAT  
GCGAACCCCCACGGTGCGGGGTCCCAGACCTGGGCAGATTCCAAACCTTTGAGGGCGACCTCAAGTGGCACCACCA  
CAACATCACCTATTGGATCCAAAATACTCGGAAGACTTGCCGCGGGCGGTGATTGACGACGCCCTTTGCCCGCGC  
CTTCGCACTGTGGAGCGCGGTGACGCCGCTCACCTTCACTCGCGTGTACAGCCGGGACGCAGACATCGTCATCCA  
GTTTGGTGTCGCGGAGCACGGAGACGGGTATCCCTTCGACGGGAAGGACGGGGCTCCTGGCACACGCCCTTTCCTCC  
TGGCCCCGGCATTTCAGGGAGACGCCCCATTTTCGACGATGACGAGTTGTGGTCCCTGGGCAAGGGCGTCGTGGTTCC  
AACTCGGTTTGGAAACGCAGATGGCGCGGCCCTGCCACTTCCCCTTCATCTTCGAGGGCCGCTCCTACTCTGCCTG  
CACCACCGACGGTCGCTCCGACGGCTTGCCCTGGTGAGTACCACGGCCAACTACGACACCGACGACCGGTTTGG  
CTTCTGCCCCAGCGAGAGACTCTACACCCGGGACGGCAATGCTGATGGGAAACCCTGCCAGTTTCCATTTCATCTT  
CCAAGGCCAATCCTACTCCGCCTGCACCACGGACGGTCGCTCCGACGGCTACCGCTGGTGCGCCACCACGCCAA  
CTACGACCGGGACAAGCTCTTCGGCTTCTGCCCCGACCGAGCTGACTCGACGGTGATGGGGGGCAACTCGGCGGG  
GGAGCTGTGCGTCTTCCCTTCACTTTCCTGGGTAAGGAGTACTCGACCTGTACCAGCGAGGGCCGCGGAGATGG  
GCGCCTCTGGTGCGCTACCACCTCGAACTTTGACAGCGACAAGAAGTGGGGCTTCTGCCCCGACCAAGGATACAG  
TTTGTTCTCTGTGGCGGCGCATGAGTTCGGCCACGCGCTGGGCTTAGATCATTCTCAGTGCCGGAGGCGCTCAT  
GTACCCATATGTACCGCTTCACTGAGGGGCCCCCTTGCCATAAGGACGACGTGAATGGCATCCGGCACCTCTATGG  
TCCTCGCCCTGAACCTGAGCCACGGCCTCCAACCACCACCACACCGCAGCCACGGCTCCCCCGACGGTCTGCCC  
CACCGGACCCCCCACTGTCCACCCCTCAGAGCGCCCCACAGCTGGCCCCACAGGTCCCCCTCAGCTGGCCCCAC  
AGGTCCCCCACTGCTGGCCCTTCTACGGCCACTACTGTGCCTTTGAGTCCGGTGGACGATGCCTGCAACGTGAA  
CATCTTCGACGCCATCGCGGAGATTGGGAACGAGCTGTATTTGTTCAAGGATGGGAAGTACTGGCGATTCTCTGA  
GGGCAGGGGGAGCCGGCCGAGGGCCCCCTTCTTATCGCCGACAAGTGGCCCGCGCTGCCCCGCAAGCTGGACTC  
GGTCTTTGAGGAGCCGCTCTCCAAGAAGCTTTTCTTCTTCTCTGGGCGCCAGGTGTGGGTGTACACAGGCGCGTC  
GGTGCTGGGCCCCGAGGCGTCTGGACAAGCTGGGCCTGGGAGCCGACGTGGCCAGGTGACCGGGGCCCTCCGGAG  
TGGCAGGGGGGAAGATGCTGCTGTTTACGCGGGCGGCGCCTCTGGAGGTTTCGACGTGAAGGCGCAGATGGTGGATCC  
CCGGAGCGCCAGCGAGGTGGACCGGATGTTCCCCGGGGTGCCCTTTGGACACGCACGACGTCTTCCAGTACCGAGA  
GAAAGCCTATTTCTGCCAGGACCGCTTCTACTGGCGCGTGAGTTCCCGGAGTGAGTTGAACCAGGTGGACCAAGT  
GGGCTACGTGACCTATGACATCCTGCAGTGCCCTGAGGACTAGGGCTCCCGTCCTGCTTTGCAGTGCCATGTAAA  
TCCCCACTGGGACCAACCCTGGGGAAGGAGCCAGTTTGCCGGATACAAACTGGTATTCTGTTCTGGAGGAAAGGG  
AGGAGTGGAGGTGGGCTGGGCCCTCTCTTCTCACCTTTGTTTTTTGTTGGAGTGTTTCTAATAAACTTGGATTCT  
CTAACCTTT



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**FIGURE 802**

MSLWQPLVLVLLVLGCCFAAPRQRQSTLVLFPGDLRTNLTDRLAEYLYRYGYTRVAEMRGESKSLGPALLLLQ  
KQLSLPETGELDSATLKAMRTPRCGVFDLGRFQTFEGDLKWHHHNITYWIQNYSEDLPRVIDDAFARAFALWSA  
VTPLTFTRVYSRDADIVIQFGVAEHGDGYFPDGDGKDLLAHAFPPGPGIQGDAHFDDELWSLGKGVVVPTRFGNA  
DGAACHFPFIFEGRSYSACTTDGRSDGLPWCSTTANYDTDGRFGFCPSERLYTRDGNADGKPCQFPFIFQGQSYS  
ACTTDGRSDGYRWCATTANYDRDKLFGFCPTRADSTVMGGNSAGELCVFPFTFLGKEYSTCTSEGRGDGRLWCAT  
TSNFDSDKKWGFCDQGYSLFLVAAHEFGHALGLDHSSVPEALMYPMYRFTEGPPLHKDDVNGIRHLYGPRPEPE  
PRPPTTTTTPQPTAPPTVCPTGPPTVHPSERPTAGPTGPPSAGPTGPPTAGPSTATTVPLSPVDDACNVNIFDAIA  
EIGNQLYLFDGKYWRFSEGRGSRPQGPFLIADKWPALPRKLDSVFEEPLSKKLFFFSGRQVWVYTGASVLGPRR  
LDKLGADVAQVTGALRSRGKMLLFSGRRLWRFDVKAQMVDPRSASEVDRMFPGVPLDTHDVVFQYREKAYFCQ  
DRFYWRVSSRSELNQVDQVGyVTyDILQCPED

CCGGTGGTGGACACGCTCGAGCCGGGTAGAAGTGGAGGGGCCGTTTCGAAGAGTCGTGAGGGGGTGACGGGTTAAGA  
TTCGGAGAGAGAGGTGCTAGTGGCTGGACTTGACCTGGAAAGAATCTTCTGCTGACTCTCAACTTTTCTGGAAA  
AAATGGGATCATTTCCCACCATATGGGGATGAGCTATATGGACTCCAACAGTACCATGCAACCTTCTCACCATACCC  
CAACCACTTCAGCCTCACACTCCCATGGTGGAGGAGACAGCAGCATGATGATGATGCCTATGACCTTCTACTTTG  
GCTTTAAGAATGTGGAACACTACTGTTTTCCGGTTTGGTGATCAATACAGCTGGAGAAATGGCTGGAGCTTTTGTGG  
CAGTGTTTTTTACTAGCAATGTTCTATGAAGGACTCAAGATAGCCCCGAGAGAGCCTGCTGCGTAAGTCACAAGTCA  
GCATTGCTACAAATTCATGCCTGTCCCAGGACCAAATGGAACCATCCTTATGGAGACACACAAAACCTGTTGGGC  
AACAGATGCTGAGCTTTCTCACCTCCTGCAAACAGTGCTGCACATCATCCAGGTGGTCATAAGCTACTTCTCTCA  
TGCTCATCTTCATGACCTACAACGGGTACCTCTGCATTGCAGTAGCAGCAGGGGCCGGTACAGGATACTTCTCTCT  
TCAGCTGGAAGAAGGCAGTGGTAGTGGATATCACAGAGCATTGCCATTGACATCAAACCTCTATGGCGTGGCCTTA  
TCGATTGCAGTGGGAAGTTGTTGAAGACTTGAAGACGTGATTCTCTGCTCCAATCATCCCTTCTTGCTCCTCTTTG  
TGCACGTAC  
TGAACATAAGTAGTAACCTCCCAAATTGTTTTTTCTAATAAGCTGAGATTCCCATTTCTCTTAAGGAGAAGCCAC  
CCATGAGATGCTTTTTCTTCTCCATCATCTTAGAGCCAAGTTATATGTTCTTGCTAATCCATGTAGCTTTTTTG  
TTCAATGACTTGATCATCTGCTTCTTTTTTGAATTTTTTAACAGATAGTAAGTAAATTTGGTGGTTTTTTTCCCCTG  
GGTCAGTGATGGAAAGGGGTTAACTTCAGCCAGGATTGATGGCAGCTGAGGGAAATTCTTGCCCAACTAAACCCA  
GAACTCAAACCTTAACATTAGAAAAATAAGGTCCAGGGCCGGACACAGTGGCCCATGCCTGTAATCCCAGCACTTTG  
GGGGGCCAAGGCAGGCTGGATCACCTGAGGACAGGAGTTCGAGACCAGTCTGGCCAACATGGGGAAACCCCGTCT  
CTACTAAAAATACAAAAATTAGCCGGGCATGGTGGTGGGCGCCTGTAATCCCAGCTACTCAGAAGGCTGAGGCAG  
GAGAATCACTTGAACCTAGGAGGCGGAGGTTGCAGTGAGCCAAGATGGCGCCATTGCACTCCAGCCTGGGTGACA  
AGAGTGAAACTCCATCTCAAAAAAAAAAAGAAAGAGGTCCAGCTTTTGGATTCAATGAGTGGGAAATACATTGTG  
CCTTTCTCTAGATGTGATACGTTATACAAAAATCTTTGTAGTGTGCAGAGCGGTGGTTTGAGACTAAATACAGGC  
TTAGAACTTGACAGAGTGTGATTCTTGGATGGCTGATGCATCGACTTGCATTCCCACTTAACACTTTGATTAGCC  
ATGAACCTGCCAATCAAAAAATGACAAATCAATTTGAGAAAAATAGAAATAGATATTTTTTAAATAAAACCATTACAA  
GTTT

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**FIGURE 804**

MDHSHHMGMSYMDSNSTMQPSHHPTTSASHSHGGDSSMMMMPMTFYFGFKNVELLFSGLVINTAGEMAGAFVA  
VLLAMFYEGLKIARESLLRKSQVSIRYNSMPVPGPNGTILMETHKTVGQQMLSFPHLLQTVLHIIQVVISYFLM  
LIFMTYNGYLCIAVAAGAGTGYFLFSWKKAVVVDITEHCH

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**FIGURE 805**

GACAGCCTCGCTTGGACGCAGAGCCCGGCCCGACGCCGCCATGAGCGCCGCGCTCTTCAGCCTGGACGGCCCGGC  
GCGCGGCGCGCCCTGGCCTGCGGAGCCTGCGCCCTTCTACGAACCGGGCCGGGCGGGCAAGCCGGGCGCGGGC  
CGAGCCAGGGGCCCTAGGCGAGCCAGGCGCCGCCGCCCGCCATGTACGACGACGAGAGCGCCATCGACTTCAG  
CGCCTACATCGACTCCATGGCCGCGCTGCCCCACCTGGAGCTGTGCCACGACGAGCTCTTCGCCGACCTCTTCAA  
CAGCAATCACAAGGCGGGCGGGCGGGGCCCCCTGGAGCTTCTTCCCGGGCGGCCCCGCGCGCCCCCTTGGGCGGGG  
CCCTGCCGCTCCCCGCTGCTCAAGCGCGAGCCCGACTGGGGCGACGGCGACGCGCCCGGCTCGCTGTTGCCCGC  
GCAGGTGGGCCCCGTGCGCACAGACCGTGGTGAGCTTGGCGGCCGAGGGCAGCCACCCCGCCACGTCGCCGGA  
GCCGCCGCGCAGCAGCCCCAGGCAGACCCCGCGCCCGGCCCGCCCGGAGAAGAGCGCCGGCAAGAGGGGCC  
GGACCGCGGCAGCCCCAGTACCGGCAGCGGCGCGAGCGCAACAACATCGCCGTGCGCAAGAGCCGCGACAAGC  
CAAGCGGCGCAACCAGGAGATGCAGCAGAAGTTGGTGGAGCTGTGCGCTGAGAACGAGAAGCTGCACCAGCGCGT  
GGAGCAGCTCACGCGGGACCTGGCCGGCCTCCGGCAGTTCTTCAAGCAGCTGCCCAGCCCGCCCTTCTGCGGC  
CGCCGGGACAGCAGACTGCCGGTTAACGCGCGGCCGGGGCGGGAGAGACTCAGCAACGACCCATACCTCAGACCCG  
ACGGCCCGGAGCGGAGCGCGCCCTGCCCTGGCGCAGCCAGAGCCGCCGGGTGCCCGCTGCAGTTTCTTGGGACAT  
AGGAGCGCAAAGAAGCTACAGCCTGGACTTACCACCACTAACTGCGAGAGAAGCTAAACGTGTTTATTTCCCT  
TAAATTATTTTGTAAATGGTAGCTTTTTCTACATCTTACTCCTGTTGATGCAGCTAAGGTACATTTGTAAAAAGA  
AAAAAAACCAGACTTTTCAGACAAACCCTTTGTATTGTAGATAAGAGGAAAAGACTGAGCATGCTCACTTTTTTA  
TATTAATTTTACAGTATTTGTAAGAATAAAGCAGCATTGAAATCGC

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**FIGURE 806**

MSAALFSLDGPARGAPWPAEPAPFYEPGRAGKPGRGAEPGALGEPGAAAPAMYDDESAIDFSAYIDSMAAVPTLE  
LCHDELFADLFNSNHKAGGAGPLELLPGGPAPRLGPGPAAPRLLKREPDWGDGDAPGSLLPAQVGPCAQTVVSLA  
AAGQTPPTSPEPPRSSPRQTPAPGPAREKSAGKRGPDGRGSPEYRQRRERNNI AVRKSRDKAKRRNQEMQQLVE  
LSAENEKLHQ RVEQLTRDLAGLRQFFKQLPSPFFLPAAGTADCR

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**FIGURE 807**

GTGGATATCCCCGAGTCACCGCGTCCCTCTCCTGCAGCTCCCGCGTCGCTGGGAGGAGCGAGGGAGCGAGCGGGA  
AGGGGTCTAGCTGGCCTTTGCTCGGCCCTCCCCAGCGCCCGGCTTTGAACCCGCCCTGCACTGCTGTCTGGGCGG  
GTCCGGGGACTCAGCACTCGACCCAAAGGTGCAGGCGCGCGAGCACAAACCCATGGCTGCGCTGGGCTGCGCGAGG  
CTGAGGTGGGCGCTGCGAGGGGGCCGGCCGTGGCCTCTGCCCCACGGGGCCAGAGCCAAGGCCGCGATCCCTGCC  
GCCCTCCCCTCGGACAAGGCCACCGGAGCTCCCGGAGCCGGGCCTGGTGTCCGGCGGCGGCAACGGAGCTTAGAG  
GAGATTCCACGTCTAGGACAGCTGCGCTTCTTCTTTTCAGCTGTTTCGTTCAAGGCTATGCCCTGCAACTGCACCAG  
TTACAGGTGCTTTACAAGGCCAAGTACGGTCCAATGTGGATGTCTACTTAGGGCCTCAGATGCACGTGAACCTG  
GCCAGTGCCCCGCTCTTGGAGCAAGTGATGCGGCAAGAGGGAAAGTACCCAGTACGGAACGACATGGAGCTATGG  
AAGGAGCACCGGGACCAGCACGACCTGACCTATGGGCCGTTACCACGGAAGGACACCCTGGTACCAGCTGCGC  
CAGGCTCTGAACCAGCGGTTGCTGAAGCCAGCGGAAGCAGCGCTCTATACGGATGCTTTCAATGAGGTGATTGAT  
GACTTTTATGACTCGACTGGACCAGCTGCGGGCAGAGAGTGCTTCGGGGAACCAGGTGTCGGACATGGCTCAACTC  
TTCTACTACTTTGCCTTGAAGCTATTTGCTACATCCTGTTTCGAGAAACGCATTGGCTGCCTGCAGCGATCCATC  
CCCGAGGACACCGTGACCTTCGTCAGATCCATCGGGTTAATGTTCCAGAACTCACTCTATGCCACCTTCCTCCCC  
AAGTGGACTCGCCCCGTGCTGCCTTTCTGGAAGCGATACCTGGATGGTTGGAATGCCATCTTTTCCTTTGGGAAG  
AAGCTGATTGATGAGAAGCTCGAAGATATGGAGGCCCACTGCAGGCAGCAGGGCCAGATGGCATCCAGGTGTCT  
GGCTACCTGCACTTCTTACTGGCCAGTGGACAGCTCAGTCCTCGGGAGGCCATGGGCAGCCTGCCTGAGCTGCTC  
ATGGCTGGAGTGGACACGACATCCAACACGCTGACATGGGCCCTGTACCACCTCTCAAAGGACCCTGAGATCCAG  
GAGGCCTTGACAGAGGAAGTGGTGGGTGTGGTGCCAGCCGGGCAAGTGCCCCAGCACAAAGGACTTTGCCACATG  
CCGTTGCTCAAAGCTGTGCTTAAGGAGACTCTGCGTCTCTACCCTGTGGTCCCCACAACTCCCGGATCATAGAA  
AAGGAAATTGAAGTTGATGGCTTCCTCTTCCCCAAGAACACCCAGTTTGTGTTCTGCCACTATGTGGTGTCCCGG  
GACCCCACTGCCTTCTCTGAGCCTGAAAGCTTCCAGCCCCACCGCTGGCTGAGAAACAGCCAGCCTGCTACCCCC  
AGGATCCAGCACCCATTTGGCTCTGTGCCCTTTGGCTATGGGGTCCGGGCCTGCCTGGGCCGCGAGGATTGCAGAG  
CTGGAGATGCAGCTACTCCTCGCAAGGCTGATCCAGAAGTACAAGGTGGTCTGGCCCCGAGACGGGGGAGTTG  
AAGAGTGTGGCCCGCATTGTCTGGTTCCCAATAAGAAAGTGGGCCTGCAGTTCCTGCAGAGACAGTGCTTGAGCT  
GAGTCTCCGCCTTGCTGGGGCTTGTCTAGAGGCTCCAGCTCTGGCACAGTGGTTCTGGCTGCTGCCATGTCTC  
AGATGAGGAGGGAGAGAAGGAGGCCGCCAGACTCGAGAGGTGGGAGGAACCTTGACACACCCTGAGCTTTTG  
CCACTTCTATCATTTTTTGTAGCAACTCCCTCTCAGCTAAAAGGCCACCCCTTTATCGCATTGCTGTCCTTGGGTAG  
AATATAAAATAAAGGGACTTTTATTTCTTATTGG

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**FIGURE 808**

MAALGCARLRWALRGAGRGLCPHGARAKAAIPAALPSDKATGAPGAGPGVRRRQRSLEEIPRLGQLRFFFQLFVQ  
GYALQLHQLQVLYKAKYGPMWMSYLGPMHVNLASAPLLEQVMRQEGKYPVRNDMELWKEHRDQHDLTYPFTTE  
GHHWYQLRQALNQRLKPAEAALYTDAFNEVIDDFMTRLDQLRAESASGNQVSDMAQLFYYFALEAICYILFEKR  
IGCLQRSIPEDTVTFVRSIGLMFQNSLYATFLPKWTRPVLPFWKRYLDGWNALFSGKKLIDEKLEDMEAQLQAA  
GPDGIQVSGYLHFLASGQLSPREAMGSLPELLMAGVDTTSNTLTWALYHLSKDPEIQEALHEEVVGVPAGQVP  
QHKDFAHMPDLLKAVLKETLRLYPVPTNSRIIEKEIEVDGFLFPKNTQFVFCHYVVS RDPTAFSEPE SFQPHRWL  
RNSQPATPRIQHFPFGSVPFYGVRA CLGRRIAELEMQLLLARLIQKYKVVLAPETGELKSVARIVLVPNKKVGLQ  
FLQRQC

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**FIGURE 809**

TGCAGCTTCCTTCTCACCTTGAAGAATAATCCTAGAAAACACAAAATGTGTGATGCTTTTGTAGGTACCTGGA  
AACTTGTCTCCAGTGAAAACCTTGATGATTATATGAAAGAAGTAGGAGTGGGCTTTGCCACCAGGAAAGTGGCTG  
GCATGGCCAAACCTAACATGATCATCAGTGTGAATGGGGATGTGATCACCATTAAATCTGAAAGTACCTTTAAAA  
ATACTGAGATTTCTTCATACTGGGCCAGGAATTTGACGAAAGTCACTGCAGATGACAGGAAAGTCAAGAGCACCA  
TAACCTTAGATGGGGGTGTCCTGGTACATGTGCAGAAATGGGATGGAAAATCAACCACCATAAAGAGAAAAACGAG  
AGGATGATAAACTGGTGGTGGAAATGCGTCATGAAAGGCGTCACTTCCACGAGAGTTTATGAGAGAGCATAAGCCA  
AGGGACGTTGACCTGGACTGAAGTTCGCATTGAACTCTACAACATTCTGTGGGATATATTGTTCAAAAAGATATT  
GTTGTTTTCCCTGATTTAGCAAGCAAGTAATTTCTCCCAAGCTGATTTTATTCAATATGGTTACGTTGGTTAAA  
TAACTTTTTTTAGATTTAG



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**FIGURE 810**

MCDAFVGTWKLVSSENFDDYMKEVGVGFATR KVAGMAKPNMII SVNGDVITIKSESTFKNTEISFILGQEFDEVT  
ADDRKVKSTITLDGGVLVHVQKWDGKSTTIKRKREDDKLVVECV MKGVTSTRVYERA

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**FIGURE 811**

GTAAGGCCGTTTTCTTTTCCCATTTCGCTCATCTGCCAGGAAAAGGGACTTGCCGTTGGCGCTTCGGCCTCTTGTT  
CATTGAGAAAAAAGAGGAAATACTCCGCGTGCGCTTGTTAGAAAGGGGAGTCGTCTCCAGCTCCGAACCCCGGAGTG  
TTCATCAGCGGGGAATCTGGCTCCGAATTCTCTTTTTTCTCCCGCCGATTGCTCGGAAGTTGGTCTAAAAGCAGA  
GGTTGGAAAAGAAAGGAAAAAAGTTTGCATCGAGACTGGATTTATTTGCACATCGCAGAAAGAAGAGAATCCAAGG  
GAGAGGGGTTGGTGCAAAGCCGCGATCACGGAGTTCAGATGTGTTCTAAGCCTGCTGGAGTGACCACACTTCCAA  
GACCTGATGGAGGCCAGAGCTCAGAGTGGCAACGGGTGCGAGCCCTTGCTGCAGACGCCCCGTGACGGTGGCAGA  
CAGCGTGGGGAGCCCCGACCCAGAGACGCCCTCACCCAGCAGGTACATGTCTTGTCTCTGGATCAGATCAGAGCC  
ATCCGAAACACCAATGAGTACACAGAGGGGCCTACTGTCTGCTCCCAAGACCTGGGCTCAAGCCTGCTCCTCGCCCC  
TCCACTCAGCACAAACACGAGAGACTCCACGGTCTGCCTGAGCACCGCCAGCCTCCTAGGCTCCAGCACTCGCAG  
GTCCATTCTTCTGCACGAGCCCCCTCTGTCCAGATCCATAAGCACGGTCAGCTCAGGGTCGCGGAGCAGTACGAGG  
ACAAGTACCAGCAGCAGCTCCTCTGAACAGAGACTGCTAGGATCATCCTTCTCCTCCGGGCCTGTTGCTGATGGC  
ATAATCCGGGTGCAACCCAAATCTGAGCTCAAGCCAGGTGAGCTTAAGCCACTGAGCAAGGAAGATTTGGGCCTG  
CACGCCCTACAGGTGTGAGGACTGTGGCAAGTGCAAATGTAAGGAGTGCACCTACCCAAGGCCTCTGCCATCAGAC  
TGGATCTGCGACAAGCAGTGCCTTTGCTCGGCCCAGAACGTGATTGACTATGGGACTTGTGTATGCTGTGTGAAA  
GGTCTCTTCTATCACTGTTCTAATGATGATGAGGACAACGTGTGCTGACAACCCATGTTCTTGAGCCAGTCTCAC  
TGTTGTACACGATGGTCAGCCATGGGTGTCATGTCCCTCTTTTTGCCTTGTTTATGGTGTACCTTCCAGCCAAG  
GGTTGCCTTAAATTGTGCCAGGGGTGTTATGACCGGGTTAACAGGCCTGGTTGCCGCTGTAAAAACTCAAACACA  
GTTTGCTGCAAAGTTCCCACTGTCCCCCTAGGAACTTTGAAAAACCAACATAGCATCATTAATCAGGAATATTA  
CAGTAATGAGGATTTTTCTTTCTTTTTTTAATACACATATGCAACCACTAAACAGTTATAATCTTGGCACTGT  
TAATAGAAAAGGTGGGATAGTCTTTGCTGTTTGCGGTGAAATGCTTTTTGTCCATGTGCCGTTTTAACTGATATGC  
TTGTTAGAACTCAGCTAATGGAGCTCAAAGTATGAGATACAGAACTTGGTGACCCATGTATTGCATAAGCTAAAG  
CAACACAGACACTCCTAGGCAAAGTTTTTGTGTTGTGAATAGTACTTGCAAACTTGTAATTAGCAGATGACTTT  
TTTCCATTGTTTTCTCCAGAGAGAATGTGCTATATTTTTGTATATACAATAATATTTGCAACTGTGAAAAACAAG  
TTGTGCCATACTACATGGCACAGACACAAAATATTATACTAATATGTTGTACATTGGAAGAATGTGAATCAATC  
AGTATGTTTTTAGATTGTATTTTGCCTTACAGAAAACCTTTATTGTAAGACTCTGATTTCCCTTTGGACTTCATG  
TATATTGTACAGTTACAGTAAAATTCAACCTTTATTTTCTAATTTTTTCAACATATTGTTTAGTGTAAGAATAT  
TTATTTGAAGTTTTATTATTTTATAAAAAAGAATATTTATTTTAAAGAGGCATCTTACAAATTTTGCCCCCTTTTAT  
GAGGATGTGATAGTTGCTGCAAATGAGGGGTTACAGATGCATATGTCCAATATAAAATAGAAAATATATTAACGT  
TTGAAATTAAAAAAAAAAAAAAAAAAAA

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**FIGURE 812**

MEARAQSGNGSQPLLQTPRDGGRQGE PDPRDAL TQQVHVLSLDQIRAIRNTNEYTEGPTVVPRPGLKPAPRPST  
QHKHERLHGLPEHRQPPRLQHSQVHSSARAPLSRSISTVSSGSRSTRSTSTSSSSSEQRLLGSSFSSGPVADGII  
RVQPKSELKPGELKPLSKEDLGLHAYRCEDCGKCKCKECTYPRPLPSDWICDKQCLCSAQNVIDYGTCVCCVKGL  
FYHCSNDDNEDNCADNPCSCSQSHCCTRWSAMGVMSLFLPCLWCYLPKAGCLKLCQGCYDRVNRPGCRCKNSNTVC  
CKVPTVPPRNFEKPT

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**FIGURE 813**

GGAGGTCCAGAGATCCTGAGAGCCCGAGCGCCCGAGCGCCGGGAGAGTTGAGAATT**ATG**GCTGCAGGAAAA  
TTTGCAAGCCTTCCCAGAAACATGCCGGTGAATCACCAGTTCCCCCTGGCCTCATCCATGGACCTTCTGAGCAGC  
AGGTCCCCCTCTCGCTGAGCATCGCCAGATGCCTATCAAGATGTGTCTATACATGGCACCCCTTCCACGGAAAGAAA  
AAAGGTCTCTCTCCATAAGGTCCTGTGATGACTTCAGTCAATGGGACCCCTCCCCACTCCAAATCCCCACGG  
CAGAACTCGCCTGTGACCCAGGATGGCATCCAGGAGAGCCCATGGCAGGACCGGCACGGCGAAACCTTACCTTC  
AGGGATCCACATCTTCTGGACCCAACTGTGGAATATGTGAAGTTCTCCAAGGAGAGGCACATCATGGACAGGACC  
CCCGAGAAACTGAAGAAGGAGCTGGAGGAGGAGCTGCTCCTGAGCAGCGAGGACCTGCGCAGCCATGCCTGGTAC  
CACGGCCGCATCCCCGACAGGTGTCTGAAAACCTTGTGTCAGCGAGATGGTGAATTCCTAGTTCTGTGACTCTCTG  
TCCAGCCCTGGGAACCTTGTCTGACCTGTGAGTGAAGAACCTCGCTCAGCACTTCAAATCAACCGGACAGTT  
CTGCGACTCAGCGAGGCCTACAGCCGCGTGCAGTACCAGTTCGAGATGGAGAGCTTCGACTCCATCCCCGGCCTG  
GTGCGCTGCTACGTGGGCAACCGCCGGCCCATCTCCAGCAGAGTGGCGCCATCATCTTCCAGCCCATCAACAGG  
ACGGTGCCTCTGCGGTGCCTGGAGGAGCATTATGGCACCTCCCCAGGCCAGGCCCGGGAGGGCAGCCTCACCAAG  
GGAAGGCCGATGTGGCCAAGAGGCTGAGCCTCACCATGGGTGGCGTCCAGGCCCGAGAGCAGAATTTGCCCAGG  
GGAAACCTCTCAGAAACAAAGAAAAGAGTGGTAGCCAGCCCGCCTGCCTGGATCAGATGCAGGACAGAAGAGCC  
TTGTCCCTCAAAGCCACAGTCAGAGAGCTACCTGCCGATTGGCTGCAAGCTGCCACCTCAGTCTCGGGTGTG  
GACACAAGCCCCCTGCCCAAACCTACCTGTGTTTCAAGGACGGGAAGCGAGCCTGCCCTGAGCCCAGCAGTGGTTCGG  
AGGGTCTCCTCAGACGCCAGGGCTGGGGAGGCGCTGAGGGGATCAGACAGTCAACTGTGCCCTAAGCCCCCGCCT  
AAGCCCTGCAAGGTGCCGTTTCTCAAGGTTCCCTCGTCTCCCTCTGCCTGGCTCAACTCAGAGGCCAACTACTGT  
GAACTGAACCCAGCGTTTGGCCACAGGCTGCGGCAGGGGAGCAAAGCTACCCTCATGTGCCCAGGGAAGCCACACA  
GAACTGCTCACAGCCAAGCAGAATGAGGCGCCAGGTCCCCGGAACCTCTGGCGTCAACTACTTGATCCTTGATGAT  
GATGACAGGGAAAGACCTTGGGAACCTGCGGCAGCTCAGATGGAGAAGGGGCAGTGGGACAAGGGCGAGTTTGTG  
ACGCCCCCTCTGGAGACTGTCTCCTCCTTCAGGCCCAACGAGTTTGAGTCAAAGTTCTTCCCCCTGAGAATAAG  
CCCCCTGGAAACAGCAATGTTGAAACGTGAAAAAGAACTGTTACCAACAACGACCCCAAGGTCATCGCCCAGCAC  
GTACTGAGCATGGACTGCAGGGTTGCTAGGATACTTGGAGTCTCTGAAGAGATGAGGAGGAACATGGGGGTGAGC  
TCAGGCCTGGAACCTATTACCTTGCCTCACGGACACCAGCTGCGCCTGGACATAATTGAAAGACACAACACAATG  
GCCATCGGCATTGCAGTGGACATTCTGGGATGCACGGGCACCTTGGAGGACCGAGCGGCCACTCTGAGTAAGATC  
ATCCAGGTGGCGGTGGAACCTGAAGGATTCCATGGGGGACCTCTATTCTTCTCAGCTCTCATGAAAGCCCTGGAA  
ATGCCACAGATCACAAGGTTAGAAAAGACGTGGACTGCTCTGCGGCACCAGTACACCCAAACTGCCATTCTCTAT  
GAGAAACAGCTGAAGCCCTTCAGCAAACCTCCTGCATGAAGGCAGAGAGTCCACATGTGTTCCCCCAAACAATGTA  
TCAGTCCCCTGCTGATGCCGCTTGTGACGTTAATGGAGCGCCAGGCTGTGACTTTTGAAGGAACCGACATGTGG  
GAAAAAACGACCAGAGCTGTGAAATCATGCTGAACCAATTTGGCAACAGCGCGATTTCATGGCCGAGGCTGCAGAC  
AGCTACCGGATGAATGCTGAGAGGATCCTGGCAGGTTTTCAACCAGATGAAGAAATGAATGAAATCTGCAAGACT  
GAATTTCAAATGCGATTGCTATGGGGCAGCAAAGGTGCACAAGTCAATCAGACAGAGAGATATGAGAAATTCAAC  
CAGATTTTAACTGCCCTCTCGCGTAAATTGGAACCTCCTCCTGTAAAGCAGGCAGAGCTTT**TGATA**AACTCTCCAGA  
GAACCTTTAGAATATCTTTTCAAGTTTCCCCAGCTTCATCTTTGGGAAAGCTTACTGTTTTTGATAAAGTAATAA  
TGTGCAAACTTGACAATATACAAGCTTTTAGTATCCACAGGATATTAAACGTGTAAATTGCACAGAGCACACTTA  
TTTATGAATTGTCTAAAGTTACTACTGATTTTAAATGAATAATTTATTATTAAGGTAAGTACTGCTAATGTTGA  
TCAGCAAAATTAAGAGAAGACCTAGCTATGTTGGCTGGTTGCTTTCTATTATCATGGTATTTGACCATTTTAGTT  
TTAATTCATGTGAGATAAGTGTAATAGAAAGAGTTTAAAGCATGAAACATTTCAGAAGGTATCAGTTATATGA  
TATCTTTTAAACAAATATGAAAAATGTAAATACTCATGAATGAAATACATCTTTTTTGTGAAAAAAAAAAAAAA  
AAAA

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**FIGURE 814**

MAAGKFASLPRNMPVNHQFPLASSMDLLSSRSPLAEHRPDAYQDVSIHGTLPRKKKGPPPIRSCDDFSHMGTLPH  
SKSPRQNSPVTQDGIQESPWQDRHGETFTFRDPLLDPTVEYVKFSKERHIMDRTPPEKLKKELEEELLSSSEDLR  
SHAWYHGRIQRQVSENLVQRDGDFLVRDSLSSPGNFVLTQWKNLAQHFKINRTVLRLEAYSRVQYQFEMESFD  
SIPGLVRCYVGNRRPISQQSGAIIQPINRTVPLRCLLEHYGTSPGQAREGSLTKGRPDVAKRLSLTMGGVQARE  
QNLPRGNLLRNKEKSGSQPACLDHMQDRRALS LKAHQSESYLP IGCKLPPQSSGVDTS PCPNSPVFRTGSEPAL  
PAVVRVSSDARAGEALRGSDSQLCPKPPPKCKVPFLKVPSSPSAWLNSEANYCELNPAFATGCGRGAKLPSCA  
QGSHTELLTAKQNEAPGPRNSGVNYLILDDDDRERPWEPAAAQMEKGQWDKGEFVTPLETVSSFRPNESKFL  
PPENKPLETAMLKRAKELFTNNDPKVIAQHVLSMDCRVARILGVSEEMRRNMGVSSGLELITLPHGHQLRLDIE  
RHNTMAIGIAVDILGCTGTLEDRAATLSKIIQVAVELKDSMGDLYSFSALMKALEMPQITRLEKTWTALRHQYTQ  
TAILYEKQLKPF SKLLHEGRESTCVPPNNVSVPLLMPLVTLMERQAVTFEGTDMWEKNDQSCEIMLNHLATARFM  
AEAADSYRMNAERILAGFQPDEEMNEICKTEFQMRLWLWGSKGAQVNQTERYEKFNQILTALSRKLEPPPVKQAEI

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**FIGURE 815**

CCTCCCCTCGCCCGGCGCGGTCCCGTCCGCCTCTCGCTCGCCTCCCGCCTCCCCTCGGTCTTCCGAGGCGCCCGG  
GCTCCCGGCGCGGCGGCGGAGGGGGCGGGCAGGCCGGCGGGCGGTGATGTGGCAGGACTCTTTATGCGCTGCGGC  
AGGATACGCGCTCGGCGCTGGGACGCGACTGCGCTCAGTTCTCTCCTCTCGGAAGCTGCAGCCATGATGGAAGTT  
TGAGAGTTGAGCCGCTGTGAGGCGAGGCCGGGCTCAGGCGAGGGAGATGAGAGACGGCGGGCGGCCGCGGCCCGGA  
GCCCCCTCTCAGCGCCTGTGAGCAGCCGCGGGGGCAGCGCCCTCGGGGAGCCGGCCGGCCTGCGGCGGGCGGCAGCG  
GCGGCGTTTCTCGCCTCCTCTTCGTCTTTTCTAACCGTGCAGCCTCTTCTCGGCTTCTCCTGAAAGGGAAGGTG  
GAAGCCGTGGGCTCGGGCGGGAGCCGGCTGAGGCGCGGCGGGCGGCGGCGGCACCTCCCGCTCCTGGAGCGGG  
GGGGAGAAGCGGCGGCGGCGGCGGCCGCGGCGGCTGCAGCTCCAGGGAGGGGGTCTGAGTCGCTGTACCATTT  
CCAGGGCTGGGAACGCCGAGAGTTGGTCTCTCCCCTTCTACTGCCTCCAACACGGCGGCGGCGGCGGCGGCACA  
TCCAGGGACCCGGGCCGTTTTAAACCTCCCGTCCGCCGCCCGCCGACCCCCGTGGCCCGGGCTCCGGAGGCCG  
CCGGCGGAGGCAGCCGTTCCGAGGATTATTTCGTCTTCTCCCATTCGCTGCCGCCGCTGCCAGGCCTCTGGCTG  
CTGAGGAGAAGCAGGCCCAGTCGCTGCAACCATCCAGCAGCCGCCGAGCAGCCATTACCCGGCTGCGGTCCAGA  
GCCAAGCGGCGGCAGAGCGAGGGGCATCAGCTACCGCCAAGTCCAGAGCCATTTCCATCCTGCAGAAGAAGCCCC  
GCCACCAGCAGCTTCTGCCATCTCTCTCCTCTTTTCTTCAGCCACAGGCTCCAGACATGACAGCCATCATCA  
AAGAGATCGTTAGCAGAAACAAAAGGAGATATCAAGAGGATGGATTGACTTAGACTTGACCTATATTTATCCAA  
ACATTATTGCTATGGGATTTCTGCAGAAAGACTTGAAGGCGTATACAGGAACAATATTGATGATGTAGTAAGGT  
TTTTGGATTCAAAGCATAAAAACCAATTACAAGATATACAATCTTTGTGCTGAAAGACATTATGACACCGCCAAAT  
TTAATTGCAGAGTTGCACAATATCCTTTTGAAGACCATAACCCACCACAGCTAGAACTTATCAAACCTTTTGTG  
AAGATCTTGACCAATGGCTAAGTGAAGATGACAATCATGTTGCAGCAATTCAGTGTAAAGCTGGAAAGGGACGAA  
CTGGTGTAATGATATGTGCATATTTATTACATCGGGGCAAATTTTTAAAGGCACAAGAGGCCCTAGATTTCTATG  
GGGAAGTAAGGACCAGAGACAAAAGGGAGTAATAATTCCCAGTCAGAGGCGCTATGTGTATTATTATAGCTACC  
TGTTAAAGAATCATCTGGATTATAGACCAGTGGCACTGTTGTTTCAAGATGATGTTTGAAGCTATTCCAATGT  
TCAGTGGCGGAACCTTGCAATCCTCAGTTTGTGGTCTGCCAGCTAAAGGTGAAGATATATTCCTCCAATTCAGGAC  
CCACACGACGGGAAGACAAGTTTATGTACTTTGAGTTCCCTCAGCCGTTACCTGTGTGTGGTGATATCAAAGTAG  
AGTTCTTCCACAAACAGAACAAAGATGCTAAAAAAGGACAAAATGTTTCACTTTTGGGTAAATACATTCTTCATAC  
CAGGACCAGAGGAAACCTCAGAAAAAGTAGAAAATGGAAGTCTATGTGATCAAGAAATCGATAGCATTTCAGTA  
TAGAGCGTGCAGATAATGACAAGGAATATCTAGTACTTACTTTAACAAAAATGATCTTGACAAAGCAAATAAAG  
ACAAAGCCAACCGATACTTTTCTCCAAATTTTAAGGTGAAGCTGTACTTCACAAAAACAGTAGAGGAGCCGTCAA  
ATCCAGAGGCTAGCAGTTCAACTTCTGTAACACCAGATGTTAGTGACAATGAACCTGATCATTATAGATATTCTG  
ACACCACTGACTCTGATCCAGAGAATGAACCTTTTGATGAAGATCAGCATAACAAATTACAAAAGTCTTGAAATTT  
TTTTTTATCAAGAGGGATAAAACACCATGAAAATAAACTTGAATAAACTGAAAATGGACCTTTTTTTTTTTAATG  
GCAATAGGACATTGTGTCAGATTACCAGTTATAGGAACAATTCTCTTTTCTGACCAATCTTGTTTTACCCATATA  
CATCCACAGGGTTTTGACACTTGTTGTCCAGTTGAAAAAAGGTTGTGTAGCTGTGTCATGTATATACCTTTTTGT  
GTCAAAAGGACATTTAAAATTCAATTAGGATTAATAAAGATGGCACTTTCCCGTTTTATTCCAGTTTTATAAAAA  
GTGGAGACAGACTGATGTGTATACGTAGGAATTTTTCTTTTGTGTTCTGTCCAACTGAAGTGGCTAAAGAG  
CTTTGTGATATACTGGTTCACATCCTACCCCTTTGCACTTGTTGGCAACAGATAAGTTTGCAGTTGGCTAAGAGAG  
GTTTCCGAAAGGTTTTGCTACCATTCTAATGCATGTATTCGGGTTAGGGCAATGGAGGGGAATGCTCAGAAAGGA  
AATAATTTTATGCTGGACTCTGGACCATATACCATCTCCAGCTATTTACACACACCTTTCTTTAGCATGCTACAG  
TTATTAATCTGGACATTCGAGGAATTGGCCGCTGTCACTGCTTGTTGTTTGCACATTTTTTTTTTAAAGCATATTG  
GTGCTAGAAAAGGCAGCTAAAGGAAGTGAATCTGTATTGGGGTACAGGAATGAACCTTCTGCAACATCTTAAGAT  
CCACAAATGAAGGGATATAAAAATAATGTCATAGGTAAGAAACACAGCAACAATGACTTAACCATATAAATGTGG  
AGGCTATCAACAAAGAATGGGCTTGAAACATTATAAAAAATTGACAATGATTTATTAAATATGTTTTCTCAATTGT  
AAAAAAAAAA

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**FIGURE 816**

MTAI I KEIVSRNKRRYQEDGFDLDLTYYIPNIIAMGFPAERLEGVYRNNIDDVVRFLDSKHKNHYKIYNLCAERH  
YDTAKFNCRVAQYPFEDHNPPQLELIKPFCELDQWLSEDDNHVAAIHCKAGKGRTGVMICAYLLHRGKFLKAQE  
ALDFYGEVTRDKKGVTIPSQRRYVYYYSYLLKNHLDYRPVALLFHKMMFETIPMFSGGTCNPQFVVCQLKVKIY  
SSNSGPTRRREDKFMFYFEPQPLPVCGLDIKVEFFHKQNKMLKKDKMFHFWNTFFIPGPEETSEKVENGLCDQEI  
DSICSIERADNDKEYLVLTLLTKNDLDKANKDKANRYFSPNFVKLYFTKTVEEPSNPEASSSTSVTPDVSDNEPD  
HYRYSDDTSDPENEPFDEDQHTQITKV

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**FIGURE 817**

AGCGGCCGCCGCCGCCACAGCTGCAGTCAGCACCGTCACCCCAGCAGCATCCGCGCGCCTGCACCGCGCGTGCGG  
CCCGCCCCGGCCTGACCCCGCCGCCGAACCCGGCGCCAGCCATGGAGCCCGAAGCCCCCGCTCGCCGCCACCCC  
ATCAGCGCGGCTACCTGCTGACACGGAACCCCTCACCTCAACAAGGACTTGGCCTTTACCTGGAAGAGAGACAGC  
AATTGAACATTCATGGATTGTTGCCACCTTCCTTCAACAGTCAGGAGATCCAGGTTCTTAGAGTAGTAAAAAATT  
TCGAGCATCTGAACTCTGACTTTGACAGGTATCTTCTCTTAATGGATCTCCAAGATAGAAATGAAAAACTCTTTT  
ATAGAGTGCTGACATCTGACATTGAGAAATTCATGCCTATTGTTTATACTCCCACTGTGGGTCTGGCTTGCCAAC  
AATATAGTTTGGTGTTTTCGGAAACCAAGAGGTCTCTTTATTACTATCCACGATCGAGGGCATATTGCTTCAGTTC  
TCAATGCATGGCCAGAAGATGTCATCAAGGCCATTGTGGTGACTGATGGAGAGCGTATTCTTGGCTTGGGAGACC  
TTGGCTGTAATGGAATGGGCATCCCTGTGGGTAAATTTGGCTCTATATACAGCTTGGCGAGGGATGAATCCTCAAG  
AATGTCTGCCTGTCATTCTGGATGTGGGAACCGAAAATGAGGAGTTACTTAAAGATCCACTCTACATTGGACTAC  
GGCAGAGAAGAGTAAGAGGTTCTGAATATGATGATTTTTTGGACGAATTCATGGAGGCAGTTTCTTCCAAGTATG  
GCATGAATTGCCTTATTCAGTTTGAAGATTTTGCCAATGTGAATGCATTTCTGTCTCCTGAACAAGTATCGAAACC  
AGTATTGCACATTCATGATGATATTCAAGGAACAGCATCTGTTGCAGTTGCAGGTCTCCTTGCAGCTCTTCGAA  
TAACCAAGAACAACTGTCTGATCAACAATACTATTCCAAGGAGCTGGGGAGGCTGCCCTAGGGATTGCACACC  
TGATTGTGATGGCCTTGGAAAAAGAAGGTTTACCAAAAGAGAAAGCCATCAAAAAGATATGGCTGGTTGATTCAA  
AAGGATTAATAGTTAAGGGACGTGCTTCCTTAACACAAGAGAAAGAGAAGTTTGCCCATGAACATGAAGAAATGA  
AGAACCCTAGAAGCCATTGTTCAAGAAATAAAACCAACTGCCCTCATAGGAGTTGCTGCAATTGGTGGTGCATTCT  
CAGAACAAATTCTCAAAGATATGGCTGCCTTCAATGAACGGCCTATTATTTTTGCTTTGAGTAATCCAACCTAGCA  
AAGCAGAAATGTTCTGCAGAGCAGTGCTACAAAATAACCAAGGGACGTGCAATTTTTGCCAGTGGCAGTCCTTTTG  
ATCCAGTCACTCTTCCAATGGACAGACCCTATATCCTGGCCAAGGCAACAATTCCTATGTGTTCCCTGGAGTTG  
CTCTTGGTGTGTGGCGTGTGGATTGAGGCAGATCACAGATAATATTTTCTCACTACTGCTGAGGTTATAGCTC  
AGCAAGTGTCAGATAAAACACTTGGAAGAGGGTGGGCTTTATCCTCCTTTGAATACCATTAGAGATGTTTCTCTGA  
AAATTGCAGAAAAGATTGTGAAAGATGCATACCAAGAAAAGACAGCCACAGTTTATCCTGAACCGCAAAAACAAAG  
AAGCATTTGTCCGCTCCAGATGTATAGTACTGATTATGACCAGATTCTACCTGATTGTTATTCTTGGCCTGAAG  
AGGTGCAGAAAATACAGACCAAAGTTGACCAGTAGGGATAATAGCAAACATTTCTAACTCTATTAATGAGGTCTTT  
AAACCTTTTCATAATTTTTTAAAGGTTGGAATCTTTTATAATGATTTCATAAGACACTTAGATTAAAGATTTTACTTTA  
ACAGTCTAAAAATTGATAGAAGAATATCGATATAAAATTGGGATAAACATCACATGAGACAATTTTGCTTCACTTT  
GCCTTCTGGTTATTTATGGTTTTCTGTCTGAATTATTCTGCCTACGTTCTCTTTAAAAGCTGTTGTACGTACTACG  
GAGAAACTCATCATTTTTTATACAGGACACTAATGGGAAGACCAAAATTACTAATAAATTGACATAACCAACATTA  
AAACTCATAATTATTTTGTGACCATTGTTGTTAAAATCTACTTTTCAAAAAAAAAAAGCTAGAAATGAATCTAG  
GCGTAGGTGAACTTTTGCTAAGCAGAAATAACACTACTTTGTTGCCTAGAGAAAGATAACTTCTCAAGTATTTTT  
ATTCCAGTCCTAGATCATATATGTTCTTTTGTGCAACGGAATTCTAACAGTTCTAAGAGAAAGATCACTGCTGTT  
TACAGCGCCTTGTGCAGCCTTAGATTTTAATATTCTTTTGTGATTGTTACATCTCATAGAGTAAAGCTCTTATTA  
CCTTGATCCTGAGTCAGAAATCCACCTGAAATCACCTTTTTTCCCCCTTGATCAAACATCCCATCCTTCAGCTA  
CCATACTGTTGCTACAGGGATTTTGTGGACTGTGGCCCTGTCCCGAGGTTGGCACCTTCAGTTCAGCACAGCCT  
GAGCAGTGAGAAGGTCTGAAAGGAGAGTATATAGTTAAGATCCTTGAGAAAGGGCTGCCTGAGGAACCTGACCTCT  
TAAAGATCTCAGGATCTTTAAGACAACAAGTTAGGTTCTTACTGGAGTTACCTGCCAGAATGGCCTCTTAATTAA  
CTCAGGTAATGAAGAGCTAACTGTGTTATAATCATCTTGCTTTTGCCTGAATTTGGAGAAAGTATTATAATTAA  
TTCCAGTATCAGAAATGTCCTTACATAAGATTAAAAATATCTTGATGACTAATACCATTCTATGAGAAAGAGTAG  
TTATATGCCCAGACTGTATTAATTTACTTTAGAACTAATGTTTGAAGTAATGGAAAAATTTTAAATTATAAAG  
CTAAGGTGCAATAACATTTGCTACTTATTTATAGAATTATTTGAAGAATTTTGTTTTTGAAGTAATGCTTTAAGG  
AGTATAAGATATTCAAGATAAATTATACTATAAAATGATTTTATTGAAAGTTGAAGGTTACACAAATTGTTTTAG  
GTATGAGCAGAAGAGGTTAAGGTATTTCTAAAGGTAACATATAGTCAAGAGTTTCTCAAAATAGTTATTTGGAG  
AAGAATCAGAATGTCTGTGATTTCTTGTCTGTTTCTATGTTGTCTTATAGCTCTGACTAAATGTGTTTACCTAT  
GCAAAAAGATTTATTAAAGCATAGAAAAGGTGAATGAATAACACCCTAAACCCCCCGAAGAGAAAAAGAAATCCCCG  
AAGAGAGAGAGCAAACACACCTGAGAACATCCGCTGAGTAAGTAGCCCGCTAGGAGAAAAGAAAAAGGGGGGGCC  
CCCCCGACTAAGAGGGCCCCCTTTCCGCCCCCGGGGAATTTATTT



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**FIGURE 818**

RPPPPQLQSAPSPQQHPRACTARAARFGLTPPPNPAPAMEPEAPRRRHQTHQRYLLTRNPHLNKDLAFTLEERQQ  
LNIHGLLPSPFNSQEIQVLRVVKNFEHLNSDFDRYLLMDLQDRNEKLFYRVLTSDIEKFMPIVYTPTVGLACQQ  
YSLVFRKPRGLFITIHDRGHIAVLNAPEDVIKAIVVTDGERILGLGDLGCNGMGIPVGKLALYTACGGMNPQE  
CLPVILDVGTENEELLKDPLYIGLRQRRVRGSEYDDFLDEFMEAVSSKYGMNCLIQFEDFANVNAFRLLNKYRNQ  
YCTFNDDIQGTASVAVAGLLAALRITKNKLSQITILFQGAGEAALGIAHLIVMALEKEGLPKEKAIKKIWLVDK  
GLIVKGRASLTQEKEKFAHEHEEMKNLEAIVQEI KPTALIGVAAIGGAFSEQILKDMAAFNERPIIFALSNPTSK  
AECSAEQCYKITKGRAIFASGSPFDPVTL PNGQTLYPGQGNN SYVFP GVALGVVACGLRQITDNIFLTAEVIAQ  
QVSDKHLEEGRLYPPLNTIRDVSLKIAEKIVKDAYQEKTATVYPEPQNKEAFVRSQMYSTDYDQILPDCYSWP  
VQKIQT KVDQ

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**FIGURE 819**

CCGCCGCCACAGCTGCAGTCAGCACCGTCACCCAGCAGCATCCGCCGCTGCACCGCGCGTGCGGCCCCGCCCCG  
GCCTGACCCCCGCCGCCGAACCCGGCGCCAGCC**ATG**SAGCCCCGAAGCCCCCGTCGCCGCCACACCCATCAGCGCG  
GCTACCTGCTGACACGGAACCCCTACCTCAACAAGGACTTGGCCTTTACCCTGGAAGAGAGACAGCAATTGAACA  
TTCAATGGATTGTTGCCACCTTCCTTCAACAGTCAGGAGATCCAGGTTCTTAGAGTAGTAAAAAATTTTCGAGCATC  
TGAACCTCTGACTTTGACAGGTATCTTCTCTTAATGGATCTCCAAGATAGAAATGAAAACTCTTTTATAGAGTGC  
TGACATCTGACATTGAGAAATTCATGCCTATTGTTTATACTCCCACTGTGGGTCTGGCTTGCCAACAATATAGTT  
TGGTGTTTTCGGAAGCCAAGAGGTCTCTTTATTACTATCCACGATCGAGGGCATATTGCTTCAGTTCTCAATGCAT  
GGCCAGAAGATGTCATCAAGGCCATTGTGGTGACTGATGGAGAGCGTATTCTTGGCTTGGGAGACCTTGGCTGTA  
ATGGAATGGGCATCCCTGTGGGTAAATTGGCTCTATATACAGCTTGC GGAGGGATGAATCCTCAAGAATGTCTGC  
CTGTCATTCTGGATGTGGGAACCGAAAATGAGGAGTTACTTAAAGATCCACTCTACATTGGACTACGGCAGAGAA  
GAGTAAGAGGTTCTGAATATGATGATTTTTTGGACGAATTCATGGAGGCAGTTTCTTCCAAGTATGGCATGAATT  
GCCTTATTCAGTTTGAAGATTTTGCCAATGTGAATGCATTCGCTCTCCTGAACAAGTATCGAAACCAGTATTGCA  
CATTCAATGATGATATTCAAGGAACAGCATCTGTTGCAGTTGCAGGTCTCCTTGACGCTCTTCGAATAACCAAGA  
ACAACTGTCTGATCAACAATACTATTCCAAGGAGCTGGAGAGGCTGCCCTAGGGATTGCACACCTGATTGTGA  
TGGCCTTGAAAAAGAAGGTTTACCAAAAGAGAAAGCCATCAAAAAGATATGGCTGGTTGATTCAAAAGGATTAA  
TAGTTAAGGGACGTGCTTCCTTAACACAAGAGAAAGAGAAAGTTTGCCCATGAACATGAAGAAATGAAGAACCTAG  
AAGCCATTGTTCAAGAAATAAAACCAACTGCCCTCATAGGAGTTGCTGCAATTGGTGGTGCAATTCTCAGAACAAA  
TTCTCAAAGATATGGCTGCCTTCAATGAACGGCCTATTATTTTTGCTTTGAGTAATCCAACTAGCAAAGCAGAAT  
GTTCTGCAGAGCAGTGCTACAAAATAACCAAGGGACGTGCAATTTTTGCCAGTGGCAGTCCTTTTGATCCAGTCA  
CTCTTCCAAATGGACAGACCCTATATCCTGGCCAAGGCAACAATTCCTACGTGTTCCCTGGAGTTGCTCTTGGTG  
TTGTGGCGTGTGGATTGAGGCAGATCACAGATAATATTTTCTCACTACTGCTGAGGTTATAGCTCAGCAAGTGT  
CAGATAAAACACTTGGAAGAGGGTCGGCTTTATCCTCCTTTGAATACCATTAGAGATGTTTCTCTGAAAATTGCAG  
AAAAGATTGTGAAAGATGCATACCAAGAAAAGACAGCCACAGTTTATCCTGAACCGCAAAACAAAGAAGCATTG  
TCCGCTCCCAGATGTATAGTACTGATTATGACCAGATTCTACCTGATTGTTATTCTTGGCCTGAAGAGGTGCAGA  
AAATACAGACCAAAGTTGACCAG**TAG**GATAATAGCAAAACATTTCTAACTCTATTAATGAGGTCTTTAAACCTTTC  
ATAATTTTTTAAAGGTTGGAATCTTTTATAATGATTCATAAGACACTTAGATTAAGATTTTACTTTAACAGTCTAA  
AAATTGATAGAAGAATATCGATATAAATTGGGATAAACATCACATGAGACAATTTTGCTTCACTTTGCCTTCTGG  
TTATTTATGGTTTCTGTCTGAATTATTCTGCCTACGTTCTCTTTAAAAGCTGTTGTACGTACTACGGAGAAACTC  
ATCATTTTTTATACAGGACACTAATGGGAAGACCAAAATTACTAATAAATTGAAATAACCAACATTAAAACTCATA  
ATTATTTTGTGACCATTTTGTAAATCTACTTTTC

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**FIGURE 820**

MEPEAPRRRHTHQRGYLLTRNPHLNKDLAFTLEERQQLNIHGLLPPSFNSQEIQVLRVVKNFEHLNSDFDRYLLL  
MDLQDRNEKLFYRVLTSDIEKFMPIVYTPTVGLACQQYSLVFRKPRGLFITIHDRGHIASVLNAWPEDVIKAIVV  
TDGERILGLGDLGCNGMGIPVGKLALYTACGGMNPQECLPVILDVGTENEELLKDPLYIGLRQRRVRGSEYDDFL  
DEFMEAVSSKYGMNCLIQFEDFANVNAFRLLNKYRNQYCTFNDDIQGTASVAVAGLLAALRITKNKLSDQTILFQ  
GAGEAALGIAHLIVMALEKEGLPKEKAIKKIWLVDKGLIVKGRASLTQEKEKFAHEHEEMKNLEAIVQEIKPTA  
LIGVAAIGGAFSEQILKDMAAFNERPIIFALSNPTSKAECSAEQCYKITKGRAIFASGSPFDPVTLPNGQTLYPG  
QGNNSYVFPGVACGLRQITDNIFLTAEVIAQQVSDKHLEEGRLYPPLNTIRDVSLKIAEKIVKDAYQEK  
TATVYPEFQNKAEAFVRSQMYSTDYDQILPDCYSWPPEEVQKIQTQKVDQ

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**FIGURE 821**

CCTTCAGCATAAAAGCTGATCCACAAACAAGAGGAGCACCAGACCTCCTCTTGGCTTCGAGATGGCTTCGCCACA  
CCAAGAGCCCAAACCTGGAGACCTGATTGAGATTTTCCGCCTTGGCTATGAGCACTGGGCCCTGTATATAGGAGA  
TGGCTACGTGATCCATCTGGCTCCTCCAAGTGAGTACCCCGGGGCTGGCTCCTCCAGTGCTTCTCAGTCCTGAG  
CAACAGTGCAGAGGTGAAACGGGGGCGCCTGGAAGATGTGGTGGGAGGCTGTTGCTATCGGGTCAACAACAGCTT  
GGACCATGAGTACCAACCACGGCCCGTGGAGGTGATCATCAGTTCTGCGAAGGAGATGGTTGGTCAGAAGATGAA  
GTACAGTATTGTGAGCAGGAAGTGTGAGCACTTTGTCGCCCAGCTGAGATATGGCAAGTCCCGCTGTAAACAGGT  
GGAAAAGGCCAAGGTTGAAGTCGGTGTGGCCACGGCGCTTGGAATCCTGGTTGTTGCTGGATGCTCTTTTGCGAT  
TAGGAGATACCAAAAAAAGCAACAGCCTGAAGCAGCCACAAAATCCTGTGTTAGAAGCAGCTGTGGGGGTCCCA  
GTGGAGATGAGCCTCCCCCATGCCTCCAGCAGCTGACCCTCGTGCCCTGTCTCAGGCGTTCTCTAGATCCTTTC  
CTCTGTTTCCCTCTCTCGCTGGCAAAAGTATGATCTAATTGAAACAAGACTGAAGGATCAATAAACAGCCATCTG  
CCCCTTCAAAAAAAAAA

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**FIGURE 822**

MASPHQEPKPGDLIEIFRLGYEHWALYIGDGYVIHLAPPSEYPGAGSSSVFSVLSNSAEVKRGRLEDVVGCCYR  
VNNSLDHEYQPRPVEVIISSAKEMVGQKMKYSIVSRNCEHFVAQLRYGKSRCKQVEKAKVEVGVATALGILVVAG  
CSFAIRRYQKKATA

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**FIGURE 823A**

AGGGGGCGGCGCTCCCGGCCCATCCCTTAGCCCCGCGGCGGCGTGTGGGCCGGAGGCTGCCTGCACCGCGTCAG  
GGAGGCCGGCCTAGAAACCCCTCCCTCCCAGAAAGAAAGCCGATCCCAGTTCAGGTGGGGTCTTCTCGGTTGCGTA  
CCTGGCTGGAGCCGAGCTGGTGGGCGGCGGCGAGCCGGCGTTTCTGGTGATGACAGCCCCGAAATGAAAGCAGCG  
CGGCCGCCGCTCCGAGGGCTGCAGGGAGATCAGCGTCCAGCAAATAAGAAGCAAGTCCTGGACCCGGAGGAGGA  
GGAGCGGCCGAGCATCTCTCTCTGCTCCGCCGTGTCCTTTAGATGAGCACTCCCGGCCGGAGCCGGAGGTGGATC  
CGCAGAGCTGCCTCTGGGCGCCTGACCCCGCGCTGACATCACAACCTGTGACAGGCGCATCACGCCCCGGTACCTG  
CTCCCGGCCGCTGCCCCGTCTCCAGCCTCTTTGTATGCCGCGAGCAATGGCCAGCCAGCAGGATTCTGGGCTTCTT  
TGAGATCAGTATCAAATATTTACTGAAATCCTGGAGTAATACTTCTCCCGTTGGCAACGGTTACATCAAGCCTCC  
GGTTCCACCTGCTTCTGGCAGGCACAGGGAGAAAGGGCCGCAACCATGCTACCCATCAATGTGGACCCAGACAG  
TAAACCAGGAGAATATGTCCTCAAAGTTTATTTGTCAACTTCACCACTCAGGCTGAACGCAAGATTTCGTATCAT  
TATGGCAGAGCCCCTGGAAAAGCCATTGACGAAATCTCTGCAACGTGGAGAAGACCCCCAATTTGATCAGGTCAT  
CAGCTCAATGAGCTCCCTTTCTGAGTACTGCCTGCCTTCCATTCTACGTACATTATTTGACTGGTATAAAAGGCA  
AAATGGCATTGAGGATGAATCACATGAATACAGACCAAGAACAAGCAATAAATCAAAAAGCGATGAACAACAGCG  
AGATTATTTAATGAAAGACGGGACCTCGCCATTGATTTTATTTTTCTTTAGTATTAATAGAAGTTTTGAAACA  
GATTCCACTTCATCCTGTAATAGACAGTTTAATACATGATGTTATTAAGTTGGCTTTCAAGCACTTTAAATACAA  
AGAAGGGTACCTTGGTCCCAACACTGGCAATATGCATATTGTGGCAGACCTGTATGCAGAAGTCATTGGAGTGT  
GGCACAAGCCAAATTCCTGCTGTAAAGAAGAAATTTATGGCGGAGCTAAAAGAATTACGGCACAAAGAGCAGAA  
CCCATATGTGGTTCAAAGCATTATCAGCTTAATAATGGGCATGAAATCTTTTGAATTAAGATGTATCCAGTGGAA  
GGATTTTGAGGCCCTCTCTTCAGTTTATGCAGGAATGTGCACATTACTTCTCGAGGTCAAAGACAAAGATATCAA  
GCATGCCTTGGCTGGGCTTTTTGTTGAAATACTTGTTCAGTTGCTGCTGCTGTTAAAAATGAAGTAAATGTTCC  
CTGCCTTAGAAATTTTGTGAAAGCCTGTATGACACCACGCTGGAACCTTTCTTCTCGAAAGAAGCATTCTTGGC  
CTTGTACCCCCCTGGTGACCTGTTTGTCTGTGTGTCAGTCAGAAGCAGCTGTTCTTGAACAGGTGGCACATTTTCCT  
CAACAACCTGCTTGTCCAACCTTAAAAACAAAGATCCCAAGATGGCTCGAGTTGCACTGGAATCTCTCTACAGATT  
ACTTTGGGTTTACATGATTCTGAATTAATGTGAAAGCAACACAGCTACTCAGAGCCGACTTATAACCATCATCAC  
AACACTTTTCCCCAAAGGGTCCCGCGGTGTGGTACCAAGGGACATGCCTCTGAACATCTTTGTGAAAAATCATCCA  
GTTTATTGCCCAGGAACGTTTAGATTTTGCAATGAAAGAAATCATTTTCGATTTTCTTTGTGTGGGAAAAACCAGC  
AAAAGCATTTCAGTCTCAACCCAGAGAGAATGAACATTGGTTTACGGGCATTCTTGGTTCATAGCTGATAGCTTGCA  
GCAGAAAGATGGGGAACCTCCCATGCCGTTTACAGGAGCCGTTCTTCTCAGGAAACACGTTAAGAGTAAAGAA  
AACATATTTGAGTAAACACTAAGTGAAGAGGAAGCCAAAATGATAGGCATGTCCTTATATTACTCTCAAGTACG  
AAAAGCTGTAGACAACATTTTAAAGGCACCTTGATAAAGAAGTAGGAAGGTGTATGATGCTGACTAATGTACAGAT  
GTTAAACAAAGAACCAGGAGACATGATCAGGGTGAGAGAAAGCCAAAAATAGATCTTTTCAGGACCTGTGTTGC  
TGCTATTCCTCGACTGCTTCTGATGGGATGTCAAACTTGAACCTTATTGACTTACTGGCTAGGCTCTCTATTCA  
TATGGATGATGAATTGCGACATATTGCACAAAATCTCTTCAGGGTTTACTTGTGACTTCTCAGATTGGAGGGA  
AGATGTACTATTTGGCTTTACCAACTTCTGCTCCGGGAAGTAAATGATATGCATCACACACTCCTTGATTGCTC  
CCTGAAGTTGCTGCTGCAGCTGCTCACCCAGTGGAACCTAGTCATCCAGACACAAGGAAAAGTCTATGAACAAGC  
CAACAAAATCAGAAATTCAGAGCTCATCGCAAATGGCTCCAGTCACAGAATTCAGTCGGAACGAGGTCCCCACTG  
CAGTGTACTCCACGCTGTAGAAGTTTTGCTCTGGTTTTACTCTGCAGTTTCCAGGTGGCCACACGCAAACTGTC  
CGTTTTAATACTCAAGGAAATTCGAGCGTTGTTTATTGCCCTGGGGCAGCCTGAGGATGACGACAGGCCGATGAT  
TGATGTCATGGATCAGCTAAGTTCTTCCATTCTAGAAAGTTTTATTTCATGTAGCAGTTTTCGATTACAGCAACATT  
ACCACTCACCCACAATGTGGATCTGCAGTGGTTGGTGGAATGGAACGCAGTCCTGGTCAATAGCCATTATGATGT  
GAAAAGCCCTTCCCATGCTGATATTTGCACAGTCTGTCAAAGACCCCTGGGTCTCTGCCTCTTCAGCTTCTT  
CCGGCAGGAGAACTTACCCAAGCACTGCCCCACAGCCCTCAGCTATGCCTGGCCTTATGCCTTCACTCGGCTCCA  
GTCGGTGATGCCCTCTGGTGGACCCAAATAGCCCAATTAATGCCAAGAAAACCAGCACTGCCGGCAGCGGAGACAA  
CTATGTTACTTTGTGGAGAAATTACCTAATTCCTTTGTTTTGGAGTTGCAAAACCCAGTATTATGAGCCAGGACA  
CTTAAGAGCTTCCACTCCAGAAATAATGGCGACCACACCTGATGGTACAGTGAGCTACGATAACAAGGCCATAGG  
CACCCCATCGGTGGGAGTTCTGTTAAAGCAGTTGGTGCCCTTGATGAGACTAGAGAGCATTGAGATCACAGAGTC  
CTTAGTTTTAGGATTTGGAAGAACAATTCCTTGTTTTCAGAGAATTGGTAGAAGAACCTTCATCCATTAATGAA  
AGAAGCTCTGGAAAGAAGACCAGAGAACAAGAAACGCCGAGAACGGCGAGACTTGTTAAGGCTACAACCTACTTCG

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**FIGURE 823B**

AATTTTGAAC TTTTGGCTGATGCTGGTGTAATAAGTGACAGCACAAATGGAGCCCTAGAGCGGGATACTTTAGC  
CCTGGGAGCTTTGTTCTTAGAATATGTGGACTTGACCCGCATGCTCCTAGAAGCTGAAAATGACAAAGAAGTTGA  
AATTCCTAAAGATATCCGGGCACATTTTAGTGCAATGGTGGCCAAC TTGATT CAGTGTGTTCCAGTT CACCACCG  
AAGATTTCTCTTCCCCCAGCAAAGTCTGAGGCACCACTTTTCATCTTATT CAGCCAGTGGGCAGGACCCCTTCAG  
CATTATGTTCACTCCTCTGGATCGTTACAGTGACAGAAATCATCAGATTACAAGATATCAGTATTGTGCATTAAA  
AGCAATGTCAGCAGTACTGTGCTGTGGCCCTGTCTTTGACAATGTGGGCCTTTCCCCAGATGGCTACCTATATAA  
ATGGCTTGACAACATTCTGGCTTGTCAAGATTTACGAGTT CATCAACTTGGCTGCGAAGTTGTTGTCTTGCTACT  
GGAAC TTAATCCTGACCAAATAAATCTTTTTAACTGGGCAATTGACCGATGCTACACAGGTTCTACCAACTTGC  
ATCTGGCTGCTTCAAAGCCATAGCAACTGTGTGTGGAAGCAGGA ACTATCCCTTCGACATAGTGACATTGTTAAA  
CCTTGTTCTATTCAAGGCCTCTGACACCAACAGAGAGATTTATGAAATCTCCATGCAGCTCATGCAGATCCTTGA  
AGCAAAGCTTTTTGTATACTCAAAGAAAGTCGCTGAGCAAAGACCGGAAGTATTCTCTATGGAACACACGGCCC  
GCTGCCACCCCTCTACAGCGTGTCACTCGCCCTCTTGT CATGTGAGCTGGCCAGGATGTACCCTGAGCTCACACT  
CCCCCTCTTCTCAGGTAAGCCAGCGATTCCCCACAACACACCCCAACGGGCGCCAGATCATGCTTACCTACCTGC  
TGCCCTGGCTGCACAACATCGAGCTGGTGGACAGCAGGCTCCTCCTCCCGGTGCGAGCCCCAGCAGCCCAGAGGA  
CGAAGTCAAGGACCGGGAAGGTGACGTGACTGCTTCTCAGGGCTGAGAGGAAATGGCTGGGGCTCTCCAGAAGC  
CACGTCACTGGTCTGAACAACCTCATGTACATGACGGCCAAGTATGGAGATGAAGTTCTTGGGCCAGAAATGGA  
AAATGCTTGGAATGCTTTAGCCAACAATGAGAAATGGAGCAACAACCTGAGGATCACCTTGCAGTTCTTGATTAG  
CCTCTGTGGGGTCAGCAGCGACACAGTTCTCCTACCCTATATTTAAAAAAGTGGCAATATACTTGTGCCGTAACAA  
CACCATTCAAACCATGGAAGAGCTTCTCTTTGAGCTGCAGCAGACAGAACCCGTGAACCCCATCGTCCAGCATTG  
TGACAACCCGCCCTTCTACCGCTTACGGCCAGTAGCAAGGCTTCCGCAGCAGCCTCAGGAACCACTCTAGCAG  
CAATACAGTGGTTGCTGGCCAGGAAAATTTCCCAGATGCTGAGGAGAACAAGATATTGAAAGAATCTGATGAAAG  
GTTTAGTAATGTCATCAGAGCCCACACTCGCCTCGAGTCAAGATACAGCAATAGCTCTGGAGGATCCTACGATGA  
AGATAAAAAATGATCCAATTTCTCCCTACACGGGCTGGTTGCTGACTATTACAGAGACCAAGCAGCCGCAGCCCTT  
ACCGATGCCTTGTACTGGAGGATGCTGGGCCCCCTGGTTGACTATCTCCCGGAGACCATCACTCCCCGGGGGCC  
ACTCCACAGGTGCAATATTGCTGTAATTTTTATGACTGAAATGGTGGTGGATCACAGTGTACGAGAAGACTGGGC  
GCTTCATCTACCATTATTACTTTCATGCTGTCTTCTTAGGTTTAGACCCTACCGGCCTGAAGTCTTTGAACACAG  
CAAAAAACTGCTTCTTACCTCTTGATTGCCCTCTCTTGCAACAGCAATTTCCATTCCATTGCTTCCGTGCTCCT  
GCAGACCCGAGAGATGGGTGAAGCTAAGACTCTAACCGTGACCCAGCCTACCAACCTGAATATCTCTATACAGG  
TGGCTTTGACTTCTTGAGAGAGGACCAGTCA TCCCCGGTGCTGACTCAGGGCTTAGTTCAAGCTCCACCTCCTC  
TAGCATCAGTCTGGGAGGCAGCAGTGGAAACCTCCCACAGATGACCCAGGAGGTAGAAGATGTGGACACAGCTGC  
TGAAACAGATGAGAAGGCAACAAGCTCATTGAGTTTCTCAGCACCAGGGCATTGGTCCACTTTGGTGCCATGA  
AGACATCACACCTAAAAATCAAATTCAAAGAGTGCTGAACAGCTACTAATTTTCTACGTACGTTGTATCTGT  
ATTTAAAGATTCCAAATCAGGCTTCCATCTGGAGCACCAGTTGAGTGAAGTTGCATTGCAGACAGCCCTCGCAAG  
CTCTTCAAGGCACTATGCTGGTGGTCTTCCAGATATTCGGGGCCCTCAAGCAACCTCTGTCTCAGCACATGCCTT  
ATCTGACCTTCTCTCAAGATTGGTGGAGGTGATAGGAGAACATGGAGATGAGATT CAGGGTTATGTAATGGAAGC  
GCTCCTAACCTTGGAGGCGGCTGTGGATAACTTGTCTGACTGCTTGAAGAACAGTGACCTCCTAACTGTATTGTC  
CCGCTCTTCTCACCAGATTTAAGCTCCAGCAGTAACTAACAGCAAGCAGAAAGAGCACAGGACAACCTAAACAT  
GAACCCGGGAACCACCAGCGGCAACACCGCAACTGCCGAACGGAGCCGGCATCAACGAAGCTTCTCTGTGCCAA  
GAAGTTTGGTGTATCGACCGATCCTCTGACCCACCTCGAAGTGCCACACTGGACAGAATT CAGGCTTGTACCCA  
ACAAGGCCCTCTCTCAAAAACCAGAAGCTCATCCTCCTTGAAGGACAGTCTCACGGACCCATCCCACATAAACCA  
TCCCACCAACCTGCTGGCCACCATATTCTGGGTACAGTGGCCTTGATGGAGTCTGATTTT GAGTTTGAATACTT  
AATGGCCTTAAGGCTGTTGAGCAGACTACTGGCACATATGCCACTCGATAAGGCTGAGAACCGAGAAAAGCTTGA  
GAAACTCCAGGCACAGCTGAAGTGGGCCGACTTCTCCGGGCTGCAGCAGCTGCTGCTGAAAGGATTACATCCCT  
CACCACCACAGACCTGACCCTGCAGCTCTTCAGTCTGCTGACACCAGTGTCCAAAATATCCATGGTGGATGCATC  
CCACGCTATTGGGTTTCCACTGAATGTCTTGTGTCTCCTGCCTCAGCTGATT CAGCATTTTGA AAAATCCCAATCA  
GTTCTGTAAGGATATAGCCGAAAGGATTGCTCAGGTTTGT TTAGAAGAGAAGAACCCCAAAC TTTCAAATCTTGC  
ACATGTCATGACTCTTTATAAAACGCACAGCTACACGAGGGACTGTGCCACGTGGGTCAATGTGGTCTGTCTGATA  
CCTTCATGAAGCATATGCTGACATTACCTTGAATATGGTTACCTACCTGGCAGAGCTGCTGGAGAAGGGCCTCCC

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**FIGURE 823C**

TAGTGTGCAGCAGCCCCCTGCTCCAGGTGATCTACAGTCTTCTCAGCTACATGGACCTTTCTGTCGTTCCCTGTCAA  
ACAGTTCAATGTGGAAGTTCTGAAGACAATTGAAAAATATGTGCAAAGTGTTCACTGGAGAGAAGCTCTGAATAT  
CTTGAAGCTGGTAGTTTTCTCGGTGAGCCAGCCTTGTTTTACCTTCATACCAGCACAGTGACCTCTCAAAAATAGA  
AATACATCGAGTGTGGACTAGTGCTTCCAAGGAATTACCTGGGAAAACCTGGACTTCCACTTCGATATTTTCGGA  
GACTCCAATCATCGGGAGGCGGTATGATGAGCTGCAGAATTCTTCTGGGCGTGATGGGAAGCCCAGGGCCATGGC  
CGTCACCCGGAGCACATCTTCCACTTCCTCAGGCTCCAACCTCCAACGTCCTTGTTCCAGTGAGCTGGAAAAGGCC  
CCAGTATTCTCAGAAGAGAACAAAAGAGAAAGTTGGTACATGTCCTTTCTCTGTGTGGCCAAGAAGTAGGATTGAG  
CAAAAATCCATCAGTGATTTTTTTCATCGTGTGGGGATCTGGATCTGCTTGAGCACCAGACAAGCTTGTTATCTTC  
TGAGGACGGTGGCCGAGAGCAGGAGAACATGGATGACACAAACAGCGAGCAGCAGTTTAGAGTCTTCAGAGACTT  
CGACTTCCTAGATGTGGAGCTGGAGGATGGAGAGGGTGAGAGTATGGACAATTTCAACTGGGGAGTGCGCAGACG  
TTCTCTGGACAGCCTGGATAAGTGTGATATGCAGATTCTGGAGGAGCGCCAAGTGTGAGGAAGCACTCTAGCCT  
GAATAAAATGCACCATGAGGACTCCGATGAATCATCCGAGGAGGAGGACCTCACAGCCAGCCAGATCCTGGAGCA  
CTCAGACCTAATCATGACTCTCTCCCCCTCTGAAGAGACGAATCCCATGGAGCTGCTCACCACAGCCTGTGACTC  
GACCCCTGCAGAACCTCATTCTTTAACACCAGAATGTCCAGCTTTGATGCTTCCTTGCTGATATGAATAATCT  
GCAGATTTCTGAGGGTTCAAAGGCTGAAGCTGTTCTGTGAGGAGGAGGACACCACCGTGCATGAGGATGATCTTTC  
TAGTTCATCAATGAAGTCCCAGCAGCTTTTGAATGCAGCGACAGCTTTAGCCTGGACATGACTGAGGGGGAAGA  
AAAAGGCAATCGGGCACTGGACCAGTTTACCCTGGCGAGCTTTGGAGAAGGTGACAGGGGAGTCTCTCCCCCTCC  
CTCGCCCTTCTTCTCAGCCATCCTTGCCGCTTTCAGCCCGCAGCCTGTGACGATGCCGAGGAGGCTGGCGCAG  
CCACATCAACCAGCTTATGTGTGACTCAGATGGCTCCTGTGCTGTGTATACATTTTCATGTGTTCTCCTCCTTGTT  
TAAGAATATTGAGAAAAGGTTCTGCTTCTAACCTGTGATGCAGCCAGTTACCTTGAGATAACCTCCGGGGAAT  
CGGATCCAAATTTGTGAGCTCTTCCAGATGCTCACCTCCTGCTCTGAATGTCCTACACTTTTTGTGGATGCCGA  
GACTCTCCTTTTCATGTGGACTTCTGGACAAGCTCAAGTTCAGTGTGTTAGAACTGCAAGAATATTTGGATACCTA  
CAACAACAGGAAAGAGGCCACACTCTCTTGCTTGCAAATTTGTAAGGCAACATTTGAGGGGGATCAAGAGATGG  
AGTAATTACCTGTCAACCAGGGGACTCCGAAGAAAAAGCAATTGGAAGTGTGTGAGAGATTATATAAGCTACACTT  
CCAGCTGCTATTGCTTTTTTCAGTCTACTGTAAGCTCATCGGCCAGGTGCACGAAGTTAGCTCCATGCCAGAGCT  
GCTGAATATGTCCAGGGAAGTGAAGTACCTAAAGAAAACCTGAAGGAAGCCAGTGCAGTCAATTGCAGCTGACCC  
TCTCTATTGAGACGGCGCGTGGTCCGAGCCACCTTCACGTCCACTGAAGCAGCCATCCAGTCCATGCTGGAGTG  
CCTGAAGAACAACGAAGTTCGGCAAGCTTTGCGGCAGATCAGGGAGTGCAGAAGTCTGTGGCCCAATGACATCTT  
TGGAAGCAGTTCTGATGATGAGGTCCAGACACTACTGAATATTTATTTCCGTACCAAAGTCTGGGACAGACGGG  
TACTTATGCCCTGGTGGGGTCTAACCAGAGCCTGACCGAGATCTGCACCAAGCTGATGGAGCTGAACATGGAGAT  
CCGGGACATGATCCGAGGGGCCAGAGTTACCGAGTCTTCACTACTTTTCTTCCAGACTCCAGTGTCTTCTGGCAC  
TAGTCTCTGACAGGAGCCTCCTGTCCCCACTGGGTTCAAAAGTGCAGTGTGCTGCTGCTGGGGCAACGTCAATCA  
GTGTCTTCTCGGCCTTCAAAGGCTTGGACAGACTGTTCTCCCTCTTGTACCTGTAGGGCTTTTCTAAAGAGG  
ATGGCAGAACTTCCAACGTGTAGCAATACTATAAGAACCAAGGTAGCTTAGAACGTCTGGACAGACTCCACTCA  
TCATGCTGTGTGGCACAATGTGTTACATTTGACCGAGCATATGCAACTCGCTACTGAAGAAGTGACTTCCGTTG  
CATACCAAAGCCGACTACACTGAACAGTACCTTCTTTCTAGAAACAATTTTAGATTGGCAAAAGTGCAATGTTT  
TCTTCACTCAAAAAATTTTATATTCTCAAACATGTATATTCTTTCCCTGTCTTGTTCATTTTCTTTTCTTTTT  
CTTTTTCTTTTTCTTTCTTTCTGTTGGGCTGAGAAAGGGGAGGCAAAATGAAGCTGGCCACTGAAAAGTGAAG  
ATGGTCAAAAGCTGACAGCCTGTGTATGTGAAAAGGGAATGTAAATGGACTGCAATGTAATGTACACTGTAATT  
TGAATACAATTACTGTATCTAAAAGGAGCTGCTATGAAGTACCTTTCTTATGTTGCTAGGCTACTGTTTCTGAAA  
GCCCTGGATCTCTTTGCACCAAAAATGGTCCAGATAGACTCTTTTAAAGGATCTTGGCTGCTTTTTTACTAGAAGG  
TTGCTTTTATGAGCATATTTATACTGCTGAAGGATGAGTGTTAATTTTAAATTAACCTTTGCCGTTTTGTAGAGAAA  
ACTATTCACAAGATAAATTCGAAGTCTTTTACCTGTGAGGCATGCATATTTAATATCTGTTTGGATAGTCAGA  
AGTAGAATCATAAAGGTAAATATGAGTTGTTACTTTGTTTCTTCGATGTCATATTTTATGTGTAATATATATGT  
AAAGGGCCATTTCTAAGTCTCTCTTAACTTAATGCTGTCAAGTGTTAGATGTGTGCATGTGAACCTTGTGCA  
CTGCAGAAAACATATTCAGAGTTTATCTATGTAACCTTATTCAGTCTGTAAATACATTTAAAGTTTTTGTGATGTAA  
GCTTAATTGATATTCTGTTGAGAACTTTCTTTAGACTAAAAAAAAAAAAAAAAAGACAAA



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**FIGURE 824**

MASQQDSGFFEISIKYLLKWSNTPVGNKYIKPPVFPASGTHREKGPPTMLPINVDPDSKPGEYVLKSLFVNFT  
TQAERKIRIIMAEPLEKPLTKSLQRGEDPQFDQVISSMSSLSEYCLPSILRTLFDWYKRQNGIEDESHEYRPRTS  
NKSXSDEQQRDYLMERRDLAIDFIFSLVLIEVLKQIPLHPVIDSLIHDVINLAFKHKFYKEGYLGPNTGNMHIVA  
DLYAEVIGVLAQAKFPAVKKKFMALKELRHKEQNPYVVSIIISLIMGMKFFRIKMYPVEDFEASLQFMQECAHY  
FLEVKDKDIKHALAGLFVEILVPVAAAVKNEVNVPCLRNFEVSLYDTTLELSSRKKHSLALYPLVTCLLCVSQKQ  
LFLNRWHIFLNNCLSNLKNKDPKMARVALESYRLLWVYMIKCESNTATQSRITITITLFPKGSRGVVPDRM  
PLNIFVKIIQFIAQERLDFAMKEIIFDFLCVKGPAKAFSLNPERMNIGLRAFLVIADSLQQKDGEPPMPVITGAVL  
PSGNTLRVKKTYLSKTLTEEEAKMIGMSLYYSQVRKAVDNILRHLDKEVGRCMMLTNVQMLNKEPEDMITGERKP  
KIDLFRTCVAAIPRLLPDGMKLELIDLLARLSIHMDDELRIHQNSLQGLLVDFSDWREDVLFGFTNFWLLREVN  
DMHHTLLDSSLKLLLQLLTQWKLVIQTQGVYEQANKIRNSELIANSSHRIQSERGPHCSVLHAVEGFALVLLC  
SFQVATRKLSVLILKEIRALFIALGQPEDDDRPMDVMDQLSSSILESFIVAVSDSATPLTHNVDLQWLVEWN  
AVLVNSHYDVKSPSHVWIFAQSVKDPWVLCFLSFLRQENLPKHCPALSYAWPYAFTRLQSVMLVDPNSPINAK  
KTSTAGSGDNYVTLRNYLILCFGVAKPSIMSPGHLRASTPEIMATTPDGTVSYDNKAIGTPSVGVLLKQLVPLM  
RLESIEITESLVLGFRTNLSLVFRELVEELHPLMKEALERRPENKKRRERRDLLRLQLLRIFELLADAGVISDST  
NGALERDTLALGALFLEYVDLTRMLLEAENDKEVEILKDIRAHFSAMVANLIQCVPVHRRFLFPQQSLRHHLF  
LFSQWAGPFSIMFTPLDRYSDRNHQITRYQYCALKAMSAVLCCGPVFDNVGLSPDGYLYKWLDNILACQDLRVHQ  
LGCEVVVLLLELNPQINLFNWAIDRCYTGSYQLASGCFKAIATVCGSRNYPFDIVTLLNLVLFKASDTNREIYE  
ISMQLMQILEAKLFVYSKKVAEQRPGSILYGTGHLPLPLYSVSLALLSCELARMYPELTPLPFSGKPAIPHNTPO  
RAPDHAYLPAALAAQHRAGGQQAPPPGSSPSPPEDEVKDREGDVTASHGLRGNGWGSPEATSLVLNNLMYMTAKY  
GDEVPGPEMENAWNALANNEKWSNNLRITLQFLISLCGVSSDVTLLPYIKKVAIYLCRNNTIQTMEELLFELQQT  
EPVNPVQHCNDNPPFYRFTASSKASAAASGTTSSSNTVVAGQENFPDAEENKILKESDERFSNVIRAHTRLESRY  
SNSSGGSYDEDKNDPISPYTGWLLTITETKQPQPLPMPCTGGCWAPLVLDYLPETITPRGPLHRCNIAVIFMTEMV  
VDHSVREDWALHLLPLLLHAVFLGLDHYRPEVFEHSSKLLLLHLLIALSCNSNFHSIASVLLQTREMGEAKTLTVQP  
AYQPEYLYTGGFDFLREDQSSPVPDGLSSSSSTSSSISLGGSSGNLPQMTQEVEDVDTAETDEKANKLIEFLTT  
RAFGPLWCHEDITPKNQNSKSAEQLTNFLRHVVSVFKDSKSGFHLEHQLSEVALQTALASSSRHYAGRSFQIFRA  
LKQPLSAHALSDLLSRLVEVIGEHEGDEIQGYVMEALLTLEAAVDNLSDCLNKSDLLTVLSRSSSPDLSSSSSKLTA  
SRKSTGQLNMNPGTTSGNTATAERSRHQRSFSVPKKFGVIDRSSDPPRSA

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**FIGURE 825**

GACGGCGAGACCCCGCCCCATCCCCGACTGCCTGAACCGCGCCAGGAGACGGACCGCAAGTCCAGCGTACCCACA  
GACGACTCAGGCGGGAGACGAGCGGTGTCAATGGCCGCCGACAGTGACGATGGCGCAGTTTCAGCTCCCGCAGCTT  
CCGACGGTGGTGTCTAGCAAAAGCACAAACATCTGGGGAGGAGCTAGTAGTCCAGGTTCCCGTAGTGGATGTGCAAA  
GCAACAACCTTCAAGGAGATGTGGCCATCCCTCCTGCTAGCCATAAAGACAGCTAATTTTCGTGGCTGTGGACACGG  
AGCTGAGTGGGCTTGGGGACAGGAAGAGTTTGTGTAACCAAGTGCATTGAGGAACGTTACAAGGCCGTGTGTTCATG  
CTGCCAGGACCCGTTCTATCCTTTCCCTGGGCCTCGCCTGCTTCAAGCGGCAGCCAGACAAGGGTGAACATTCCCT  
ATCTGGCTCAAGTGTTCAATCTCACTCTGCTGTGCATGGAGGAGTATGTATAGAACCAAAAGTCTGTGCAGTTCC  
TGATACAGCATGGCTTCAACTTCAACCAGCAGTATGCCCAAGGCATCCCTACCATAAGGGCAATGACAAGGGTG  
ATGAGAGCCAGAGCCAGTCACTACGGACCCTATTCTGGAGCTAATCCGAGCCCGCCGGCCTCTGGTGCTACACA  
ATGGCCTTATAGACTTGGTGTTCCCTGTACCAGAACTTCTATGCACACCTCCCTGAGAGTCTGGGAACCTTCAACCG  
CTGACCTGTGTGAGATGTTCCAGCAGGCATTTATGACACCAATATGCTGCTGAGTTTTCGTGCCCGTTTCGTGG  
CCTCCTACTTAGAATATGCCTTCCGGAATGTGAACGGGAAAATGGGAAGCAGCGGGCAGCTGGCAGCCCACACC  
TTACCCTGGAGTTCGTCAACTATCCTTCCAGCATGAGGGACCATATTGATTACCGCTGCTGCCTGCCCCCAGCAA  
CCCACCGTCCTCATCCCACCAGCATCTGTGACAACTTCTCGGCTTATGGCTGGTGCCCCCTGGGACCACAGTGTC  
CTCAGTCTCACGATATTGACCTTATCATTGACACTGATGAGGCTGCGGCAGAGGACAAGCGGCGACGGCGACGAC  
GTAGGGAAAAACGGAAGAGGGCTTTATTGAACCTACCGGGGACACAGACCTCTGGGGAAGCTAAGGATGGTCCTC  
CCAAGAAGCAGGTCTGTGGGGATAGCATCAAGCCTGAAGAAACCGAGCAGGAGGTGGCTGCCGATGAAACTAGGA  
ACCTGCCTCACTCCAAGCAAGGCAACAAAAATGACTTAGAGATGGGGATTAAAGGCAGCAAGGCCTGAAATAGCTG  
ATAGAGCTACCTCAGAAGTGCCAGGGAGCCAAGCCAGTCCTAACCCAGTGCCTGGGGATGGATTGCACCGGGCTG  
GTTTTGATGCCTTTATGACAGGTTATGTGATGGCCTATGTGGAAGTGAGCCAGGGACCGCAGCCCTGCAGCTCTG  
GACCCTGGCTCCCTGAATGCCACAATAAGGTATATTTGAGTGGCAAAGCTGTACCCCTCACAGTGGCCAAGAGCC  
AGTTCTCTCGTTCCTCCAAAGCCCACAATCAGAAGATGAAGCTCACTTGGGGCAGTAGCTTGATGCAACTTCCACC  
TTGCTCTCAGGTGGAACAGAGGTATTTTGGGTCTCTCTAGCCTGAAATGTCATCCTCAACTGCTACTGAGTTTAG  
GGGAGGGGGAATGTCTTGACAGACATCACTGCATTGCCCTGGACCGCTCCTTTATCCAGTGTTTGAGGTACAA  
GTAAGAAGGCTGACCAGCACCTGTAACACTGACTTTATTTTTAAGTCTGAAAATGTCTTGGGAAAGTTTTAC

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**FIGURE 826**

MAADSDDGAVSAPAASDGGVSKSTTSGEELVVQVPVVDVQSNNEKEMWPSLLLAIKTANFVAVDTELSGLGDRKS  
LLNQCI EERYKAVCHAARTSILSLGLACFKRQPDKGEHSYLAQVFNLTL CME EYVIEPKSVQFLIQHGFNFNQ  
QYAQGIPYHKGNDKGDESQSQSVRTLFL ELIRARRPLVLHNGLIDL VFLYQNFY AHPESLGTFTADLC EMFPAG  
IYDTKYAAEFRRARFVASYLEYAFRK CERENGKQRAAGSPHLTLEFCNYPSSMRDHIDYRCCLPPATHRPHPTSIC  
DNFSAYGWCPLGPQCPQSHDIDLI IDTDEAAAEDKRRRRRRRREKRKRALLNLPGTQTSGEAKDGPPKKQVCGDSI  
KPEETE QEVAADETRNLPHSKQGKNKDLEMGIKAARPEIADRATSEVPGSQASPNFPVPGDGLHRAGFDAFMTGYV  
MAYVEVSQGFQPCSSGPWLPECHNKVYLSGKAVPLTVAKSQFSRSSKAHNQKMKLTWGSS

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**FIGURE 827A**

TTTTTTTTTTTTTTTACAGCTGTTCTGCTGATTGCTTTTTTAAGCTAGGCTCAAGTGTGGGGCCACGGAATCCTT  
CAGGTGCCCTTCAAATCAGACATTACATTTAGCTCTCAGGGCTAGAATGCTTCCCCCTCTTATCTTGGGCAGGT  
CTTTGAAGAAGCCAGTTTAGCCTTGGAATTTTGAATTTGGCCATAGTATACGGAGGAGAGCTAGGTAGCTATCA  
AAACGCTTAGACAAACGTATGGTAAAATGCAGCCCAGCCTGAACCTCCGCAAACCCCCAAACCTGGAGCAGCAA  
GTGGGCAAAGGAGTGTGTGTTTGGGGCAGGGTACTGAGTCCCATATGTAATCAAGAGACCTGGAGGGCCCCAAGGA  
AGTCAGTGACACCCCCACAAGCTACATATCCTCCAATGGATTGTGGTGGTCATCTCCGGCTACCGAAGCCACCTT  
GCTTATTCCCATAGGCTTACAAACATTATGATGCTTCACACGAGTTGTGGGTGAAGTGAAGGAATTGGAAAGTCC  
CGGTCTAAGGCCCTGCAAACCTGCTGTCTGGTAAAAACAAGTGACTATGGCAAGGCCCTGAATGTACTACGTATA  
GACTTAAGTCAGTATTTGTGCCTAACAGCAAAGCATGCCACAAGAGGCTCCTCAAAGCCGGGTAATTGATGCCA  
TTGTTTTCTTGACCTAGTTGAAGAGTCAAAGAAGAGAAGGTGATGCAGAACTTCTTTCCAGTGAAGTGACAGAT  
CCAAGCAAGGAACACCTGCCTGTGAGGGGAGCGGTAGGGGAGGGGGTAGATTCCGGCAGCACTCGGGTAGTGCCAG  
GGACCACATATTGTCGGTGTAAACCACTGTTATCACTGGCCCAGGTCGAGTGAGGACGAGTCATTTCCCCACTAA  
GCACTTGGGGAGTGGCAGGGACCACATATTGTCAGTGTTAACCACTGTTATGACTGGCCCAGGTCGGGTGACGAC  
GAGCCATTTCCGCACTATTGTCCCTTCTTCTCACTGCACCCCCAGCCCTGCACCCTCAGCTCCAAATACACATT  
CTCGTTCACTCAACGTTTGTGACACCTAGCGTGGGCCCTGTGGGATGGGGTAAAAGTTCCGTGTTGGGAGGAGC  
CCCGGTGACAGATTTTGGTGGTGGTGGCTTTTGGGCAAGGACAGGTCAGTTCATAAAAGATGACGCCCCAG  
GTCTGGATCGAATTCTCCTGGGAGCCAGACCAAAGCACCTTCTGGACTGCAAAGTGTGGAAGCCGCCGCGGGCC  
GGGCGCGGGGAGGTGTCATGCGCCGAACCTGCGCTTGGGGCCAAGCTCTGGAGCTGACGCGCAGGGGCAAGGCG  
CCCCGCGTCCCGGACTGGCGGCTCCGCGCATGCTCCTCCACCGGCGTCCGAGGCCTCGAGAGGCTCCGGAAGTA  
CTGGGTGCAGCCTGATGGCGCAGGAGGTAGACACGGCACAGGGCGCCGAGATGCGGCGGGGCGCGGGCGCGGCTC  
GGGGACGCGCTTCTGGTGTCTGGGCCCTGGCGCTGCTTTGGCTCGCGGTGGTTCCGGGCTGGTCCCGGGTCTCGG  
GCATCCCCCTCCCGGCGCCACTGGCCGGTGGCCCTACAAGCGCTTTGACTTCCGTCCAAACCTGATCCTTATTGTC  
AAGCTAAGTATACTTTCTGTCCAAGTGGCTCACCTATCCAGTTATGGAGGGTATGATGACATTGAAGTTTTTC  
GATTACAAGCCCCAGTATGGGAATTTAAATATGGAGACCTCCTGGGACACTTGAAAATTATGCATGATGCCATTG  
GATTACAGAAGTACATTAAGTGGCAAGAACTACACAATGGAATGGTATGAACTTTTCCAAGTGGCAACTGTACAT  
TTCCCCATCTCCGACCTGAAATGGATGCCCCCTTTCTGGTGTAAATCAAGGCGCTGCCTGCTTTTTTGGAGGAATTG  
ATGATGTTCACTGGAAGGAAAATGGGACATTAGTTCAAGTAGCAACTATATCAGGAAACATGTTCAACCAAATGG  
CAAAGTGGGTGAAACAGGACAATGAAACAGGAATTTATTATGAGACATGGAATGTAAAAGCCAGCCAGAAAAGG  
GGGCAGAGACATGTTTTGATTCTACGACTGTTCCAAATTTGTGTTAAGGACCTTTAACAAGTTGGCTGAATTTG  
GAGCAGAGTTCAAGAACATAGAAACCAACTATACAAGAATATTTCTTTACAGTGGAGAACCTACTTATCTGGGAA  
ATGAAACATCTGTTTTTGGGCCAACAGGAAACAAGACTCTTGGTTTAGCCATAAAAAGATTTTATTACCCCTTCA  
AACCACATTTGCCAACTAAAGAATTTCTGTTGAGTCTCTTGCAAATTTTATGATGCAGTGATTGTGCACAAACAGT  
TCTATTTGTTTTATAATTTTGAATATTGGTGTTTTACCTATGAAATTCCTTTTATTAATAACATATGAAGAAA  
TCCCTTTACCTATCAGAAACAAAACACTCTCTGGTTTATTAACACCTTAATTCTACTGCTCTTTTTTCTCCAAT  
CACCAGCATCTGTTTTTCAGGGGGTGATTTTACTTTTGTGAATTCCTTAGCCTTTCTTCTTGGTGCATAAAGTT  
AAAATGCACATCAGCAGAATTGCTGCATATTAACATCTCAGGACTCTTCTTGTAAAGAAGCTGAAATTCGTAC  
TATATTGGCCAAAGTGAGCGAGTTAGGTGATCTTGGTTTCAATTTCCGAGCCTTTGTTAATATGGAGAATTATGG  
TTCATATCAGTTATGTAGGACCTTTGGACCCAGGGTCCTACAGATAGATATGGTGTGCCAGATTTTAAAAATAC  
CTTCAAAAATAAAAAATACATTCACTGACATTTTCATGGTGGGAGCTCTTCTTCTGATATGGCAGTTACACTTT  
TTCACTTAAGTGCTTTAGTTTAGACTAACTTTACAACCTTCTATAACTTTTGGAAACCAAGTTTAGTATAGTCTGAT  
TACATTCCATTACCTAACTTTAGACATTCTGTTTAGACACCATAACTGGAGTGATTGTGCTTCTAGATGTGGCAA  
ATCCAGTGTTAACACATATTTCTGGCTGAGATTTTGGAACTAGCTAGTAACTGGCTTGTGTTCTTTAAGCATACT  
AACATCACTAAATCTTAGGATTTAGGATTGCTGTAAAGATGTAAGTTGTGTATGTTTGGCAGGTACATTGAATG  
GCAGTGATAATGATTAATCAAAGAACAAATGTCATCCTTGATCTTGCCATATGTAGTTTATGTGCCAAACTTTCC  
AGGGTTTTGTAGTCACCTAGATTTTAAAGCTGATAGCATAGTGCTTCAGCGTTCTTCTAACCAGGGGTATGCAGGA  
ACATGGCTGCAGACACGTTTGGGTAAACAGGCACCTTCTGACTTCTTCAATTGTTTCTGTAGTTCTCCCTCTTCC  
CACAAAGCTGTCAGCGCAGTGGAAGAGGTTGCACTTCTCCGAGAGAGGACAGGTTTCTGTTAAGATCACCAAGTA  
GCTGTGCTTTAATTAGAGCCAGACAAGCTTTCAAGGTCCTTTAAGTATTTGATGATCAACTGAACACGTTTCTAT

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**FIGURE 827B**

TCAAGGAGAAAAACACCATTTCAGTAAGAAGATGGAGTAGATATCAGATAAAACAATTCACGTTTAATATGTAAATG  
TACCAATTATGTGATTCAGTTTCAACTTTCAAGTACTTCCTGAGAGGTTAGTACATTATTATTGAGCTCTCACAG  
AAAGCTTAATCATAGATATAATTAACCTGATCCAAATGAGTAAAGTGGACCTTAGAAAGGCTAAGTGATCTTTCT  
CTGGCTATCCAGCTAGTAGTAATGAAGTCAGGTCTTGAACCCCGGTTCTGCTGACTGAATTGGATGCACTATAGT  
ACAGGCTTTTAGCACCGAAGTGTGGTCCTCAGACCAGTGCCTGCCAACCCAGATGTTACTGGTCTGTGAGGAAATA  
AGTACAGATACTGACAGGAAGCTTTTATAAACAATTTATTGGAGTGTTTTTGTTTCTGTTGGGTCTAATTAAAAA  
AATTGGAGCTTGTAaaaaaaaaaaaaaaaaaaaaa

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**FIGURE 828**

MRRNLRLGPSSGADAQGQGAPRPGLAAPRMLLPPASQASRGSGSTGCSLMAQEVDTAQGAEMRRGAGAARGRASW  
CWALALLWLAVVPGWSRVSGIPSRRHWPVPYKRFDPRPKDPYCQAKYTFCTGSPIPVMEGDDDDIEVFRLQAPV  
WEFKYGDLLGHLKIMHDAIGFRSTLTGKNYTMEWYELFQLGNCTFPHLRPEMDAPFWCNQGAACFFEGIDDVHWK  
ENGLTVQVATISGNMFNQMAKWVKQDNETGIYYETWNVKASPEKGAETWFDSYDCSKFVLRITFNKLAIEFGAEFKN  
IETNYTRIFLYSGEPTYLGNETSVFGPTGNKTLGLAIKRFYYPFKPHLPTKEFLLSLLQIFDAVIVHKQFYLFYN  
FEYWFLPMKFPFIKITYEEIPLPIRNKTLISGL

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**FIGURE 829**

GGGGGACTGGGAGCGGGCGGCGCGGCCATGGCGGGCTGCTGCTCCGCGCTGGCGGCCTTCCTGTTTCGAGTACGAC  
ACGCCGCGCATCGTGCTCATCCGCAGCCGCAAAGTGGGGCTCATGAACCGCGCCGTGCAACTGCTCATCCTGGCC  
TACGTCATCGGGTGGGTGTTTGTGTGGGAAAAGGGCTACCAGGAAACTGACTCCGTGGTCAGCTCCGTTACGACC  
AAGGTCAAGGGCGTGGCTGTGACCAACACTTCTAAACTTGGATTCCGGATCTGGGATGTGGCGGATTATGTGATA  
CCAGCTCAGGAGGAAAACTCCCTCTTCGTCATGACCAACGTGATCCTCACCATGAACCAGACACAGGGCCTGTGC  
CCCGAGATTCCAGATGCGACCACTGTGTGTAAATCAGATGCCAGCTGTACTGCCGGCTCTGCCGGCACCCACAGC  
AACGGAGTCTCAACAGGCAGGTGCGTAGCTTTCAACGGGTCCGTCAAGACGTGTGAGGTGGCGGCCTGGTGCCCG  
GTGGAGGATGACACACACGTGCCACAACCTGCTTTTTTAAAGGCTGCAGAAAACCTTCACTCTTTTGGTTAAGAAC  
AACATCTGGTATCCCAAATTTAATTTAGCAAGAGGAATATCCTTCCCAACATCACCCTACTTACCTCAAGTCG  
TGCATTTATGATGCTAAACAGATCCCTTCTGCCCCATATTCCTGCTTGGCAAATAGTGGAGAACGCAGGACAC  
AGTTTCCAGGACATGGCCGTGGAGGGAGGCATCATGGGCATCCAGGTCAACTGGGACTGCAACCTGGACAGAGCC  
GCCTCCCTCTGCTTGCCAGGTACTCCTTCCGCCGCCTCGATACACGGGACGTTGAGCACAACGTATCTCCTGGC  
TACAATTTAGGTTTGCCAAGTACTACAGAGACCTGGCTGGCAACGAGCAGCGCACGCTCATCAAGGCCTATGGC  
ATCCGCTTCGACATCATTGTGTTTGGGAAGGCAGGGAAATTTGACATCATCCCCACTATGATCAACATCGGCTCT  
GGCTGGCACTGCTAGGCATGGCGACCGTGCTGTGTGACATCATAGTCCTCTACTGCATGAAGAAAAGACTCTAC  
TATCGGGAGAAGAAATATAAATATGTGGAAGATTACGAGCAGGGTCTTGCTAGTGAGCTGGACCAGTGAAGGCCTA  
CCCCACACCTGGGCTCTCCACAGCCCCATCAAAGAACAGAGAGGAGGAGGGAGAAATGGCCACCACATCACC  
CCAGAGAAATTTCTGGAATCTGATTGAGTCTCCACTCCACAAGCACTCAGGGTTCCCCAGCAGCTCCTGTGTGT  
GTGTGCAGGATCTGTTTGCCCACTCGGCCAGGAGGTCA

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**FIGURE 830**

MAGCCSALAAFLFEYDTPRIVLIRSRKVGLMNRAVQLLILAYVIGWVFVWEKGYQETDSVVSSVTTKVKGVAVTN  
TSKLGFRIVDVADYVIPAQEENSLFVMTNVILTMNQTQGLCPEIPDATTVCKSDASCTAGSAGTHSNGVSTGRCV  
AFNGSVKTCEVAAWCPVEDDTHVPQPAFLKAAENFTLLVKNNIWYPKFNFSSKRNILPNITTTYLKSCIYDAKTDP  
FCPIFRLGKIVENAGHSFQDMAVEGGIMGIQVNWDCNLDRAASLCLEPRYSFRRLDTRDVEHNVSPGYNFRFAKYY  
RDLAGNEQRTLIKAYGIRFDIIVFGKAGKFDIPTMINIGSGLALLGMATVLCDIIVLYCMKKRLYYREKKYKYV  
EDYEQGLASELDQ



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**FIGURE 831**

CCGAGCCGAGCGCCGAGCAGGGAGCGGGCGGCCGCGCTCCGGGCCGGGGTCCCGGGGGAGCAGATCCTCAGAATG  
GCCCTTGTTGCTGCAGGCGCGGTGGGCTCCGGGGCCAGGCACCGAGGGGGCACTGGATGACTCTCCAGGTGCAGG  
ACCCTGCCATCTTATGACTCCAGGTCTTCAGCACCCACCCACCGTGGTACAGCGCCCCGGGATGCCGTCTGGAGCC  
CGGATGCCCCACCAAGGGGGCGCCCATGGGGCCCCCGGGCTCCCCGTACATGGGCAGCCCCGCCGTGCGACCCGGC  
CTGGCCCCCGCGGGCATGGAGCCCGCCGCAAGCGAGCAGCGCCCCCGCCGGGCAGAGCCAGGCACAGAGCCAG  
GGCCAGCCGGTGCCACCGCCCCCGCGCGGAGCCGAGTGCCAAGAGGAGGAAGATGGCTGACAAAATCCTCCCT  
CAAAGGATTCGGGAGCTGGTCCCCGAGTCCCAGGCTTACATGGACCTCTTGGCATTGAGAGGAAACTGGATCAA  
ACCATCATGCGGAAGCGGGTGGACATCCAGGAGGCTCTGAAGAGGCCCATGAAGCAAAGCGGAAGCTGCGACTC  
TATATCTCCAACACTTTTAACCCCTGCGAAGCCTGATGCTGAGGATTCCGACGGCAGCATTGCCTCCTGGGAGCTA  
CGGGTGGAGGGGAAGCTCCTGGATGATCCAGCAAACAGAAGCGGAAGTTCTCTTTCTTTCAAGAGTTTGCTC  
ATCGAGCTGGACAAAGATCTTTATGGCCCTGACAACACCTCGTTGAGTGGCATCGGACACCCACGACCCAGGAG  
ACGGACGGCTTCAGGTGAAACGGCCTGGGGACCTGAGTGTGCGCTGCACGCTGCTCCTCATGCTGGACTACCAG  
CCTCCCCAGTTCAAACCTGGATCCCCGCCTAGCCCGGCTGCTGGGGCTGCACACACAGAGCCGCTCAGCCATTGTC  
CAGGCCCTGTGGCAGTATGTGAAGACCAACAGGCTGCAGGACTCCCATGACAAGGAATACATCAATGGGGACAAG  
TATTTCCAGCAGATTTTTGATTGTCCCCGGCTGAAGTTTTCTGAGATTCCCCAGCGCCTCACAGCCCTGCTATTG  
CCCCCTGACCCAATTGTCATCAACCATGTCATCAGCGTGGACCCTTCAGACCAGAAGAAGACGGCGTGCTATGAC  
ATTGACGTGGAGGTGGAGGAGCCATTAAAGGGGCAGATGAGCAGCTTCCTCCTATCCACGGCCAACCAGCAGGAG  
ATCAGTGCTCTGGACAGTAAGATCCATGAGACGATTGAGTCCATAAACCAGCTCAAGATCCAGAGGGACTTCATG  
CTAAGCTTCTCCAGAGACCCCAAAGGCTATGTCCAAGACCTGCTCCGCTCCCAGAGCCGGGACCTCAAGGTGATG  
ACAGATGTAGCCGGCAACCCTGAAGAGGAGCGCCGGGCTGAGTTCTACCACCAGCCCTGGTCCCAGGAGGCCGTC  
AGTCGCTACTTCTACTGCAAGATCCAGCAGCGCAGGCAGGAGCTGGAGCAGTCGCTGGTTGTGCGCAACACCTAG  
  
GAGCCCCAAAAATAAGCAGCACGACGGAACTTTCAGCCGTGTCCCGGGCCCCAGCATTTTGCCCCGGGCTCCAGCA  
TCACTCCTCTGCCACCTTGGGGTGTGGGGCTGGATTAAAAGTCATTTCATCTGACA

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**FIGURE 832**

MTPGLQHPP TVVQRPGMP SGARMPHQGRPWAPRAPRTWAAPP CDPAWPPRDGARPQASSAPARQSQAQSQGQPEP  
TAPARSRS AKRRKMADKILPQRI RELVPESQAYMDLLAFERKLDQTIMRKGVDIQEALKRPMKQKRKLRLYISNT  
FNPAKSDAEDSDGSIASWELRVEGKLLDDPSKQKRKFS SFFKSLVIELDKDLYGPDNHLVEWHRTPTTQETDGFQ  
VKRPGDLSVRCTLLLMLDYQPPQFKLDPRLARLLGLHTQSRSAIVQALWQYVKTNRQLQDSHDKEYINGDKYFQQI  
FDCPRLKFSEIPQRLTALLLPDP IVINHVISVDP SDQKKTACYDIDVEVEEPLKGQMSSFLLSTANQQEISPLD  
SKIHETIESINQLKIQRDFMLSFSRDPKGYVQDLLRSQSRDLKVMTDVAGNPEEERRAEFYHQPWSQEAVSRYFY  
CKIQQRQEQELEQSLVVRNT

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**FIGURE 833**

TCCTGCGTTGCTGGGAAGTTCTGGAAGGAAGCATGTGCTCCAGAGGTTGGGATTTCGTGTCTGGCTCTGGAATTGC  
TACTGCTGCCTCTGTCACTCCTGGTGACCAGCATTCAAGGTCACTTGGTACATATGACCGTGGTCTCCGGCAGCA  
ACGTGACTCTGAACATCTCTGAGAGCCTGCCTGAGAACTACAAACAACCTAACCTGGTTTTATACTTTTCGACCAGA  
AGATTGTAGAATGGGATTCCAGAAAATCTAAGTACTTTGAATCCAAATTTAAAGGCAGGGTCAGACTTGATCCTC  
AGAGTGGCGCACTGTACATCTCTAAGGTCCAGAAAGAGGACAACAGCACCTACATCATGAGGGTGTGAAAAAGA  
CTGGGAATGAGCAAGAATGGAAGATCAAGCTGCAAGTGCTTGACCCTGTACCCAAGCCTGTTCATCAAAATTGAGA  
AGATAGAAGACATGGATGACAACCTGTTATTTGAAACTGTTCATGTGTGATACCTGGCGAGTCTGTAAACTACACCT  
GGTATGGGGACAAAAGGCCCTTCCCAAAGGAGCTCCAGAACAGTGTGCTTGAAACCACCCTTATGCCACATAATT  
ACTCCAGGTGTTATACCTTGCCAAGTCAGCAATTCTGTGAGCAGCAAGAATGGCACGGTCTGCCTCAGTCCACCCT  
GTACCCTGGCCCGGTCTTTGGAGTAGAATGGATTGCAAGTTGGCTAGTGGTCACGGTGCCACCATTCTTGGCC  
TGTTACTTACCTGAGATGAGCTCTTTTAACTCAAGCGAACTTCAAGGCCAGAAGATCTTGCCTGTTGGTGATCA  
TGCTCCTCACCAGGACAGAGACTGTATAGGCTGACCAGAAGCATGCTGCTGAATTATCAACGAGGATTTTCAAGT  
TAACTTTTAAATACTGGTTATTATTTAATTTTATATCCCTTTGTTGTTTTCTAGTACACAGAGATATAGAGATAC  
ACATGCTTTTTTCCCACCCAAAATTGTGACAACATTATGTGAATGTTTTATTATTTTTTAAAATAAACATTTGAT  
ATAATTATCAATTAACCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 834**

MCSRGWDSCLALELLLLPLSLLVTSIQGHLVHMTVVSGSNVTLNISESLPENYKQLTWFYTFDQKIVEWDSRKS  
YFESKFKGRVRLDPQSGALYISKVQKEDNSTYIMRVLKKTGNEQEWKIKLQVLDPVPKPVIKIEKIEDMDDNCYL  
KLSCVIPGESVNYTWYGDKRPFKELQNSVLETTLMPHNYSRCYTCQVSNSVSSKNGTVCLSPCTLARSFGVEW  
IASWLVVTVPTILGLLLT

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**FIGURE 835**

CGCCTTCCCTCCAATCAGCACCGGGGCCGGCTAGCCAGGGGCCGGCCGCGCGGGGTGTGTGAGGACGCGCTCCCA  
GTCGCTGAGTGCTGAGCCGGGAAGCAGTTGCTGTGGTACCTGCGCTGCCCCGAGCGGAGTGGATGGCAGAGGTGG  
GCTGTAGAGCCAAAAGTGGGGTGGGAGCGCGAAGATGGCAGCTGCTGAGGAGGAGCCGAAGCCCCAAAAGCTGAAG  
GTGGAGGCGCCGCAAGCGCTGAGAGAAAATATTCTCTTTGGAATGGGAAATCCTCTGCTTGACATCTCTGCTGTA  
GTGGACAAAGATTTTCCTTGATAAGTATTCTCTGAAACCAAATGACCAAATCTTGGCTGAAGACAAACACAAGGAA  
CTGTTTGATGAACTTGTGAAAAAATTCAAAGTCGAATATCATGCTGGTGGCTCTACCCAGAATTCAATTAAAGTG  
GCTCAGTGGATGATTCAACAGCCACACAAAGCAGCAACATTTTTTGGATGCATTGGGATAGATAAAATTTGGGGAG  
ATCCTGAAGAGAAAAGCTGCTGAAGCCCATGTGGATGCTCATTACTACGAGCAGAATGAGCAGCCAACAGGAAGT  
TGTGCTGCATGCATCACTGGTGACAACAGGTCCCTCATAGCTAATCTTGCTGCTGCCAATTGTTATAAAAAGGAA  
AAACATCTTGATCTGGAGAAAACTGGATGTTGGTAGAAAAAGCAAGAGTTTGTTATATAGCAGGCTTTTTTCTT  
CACGTTTCCCCAGAGTCAGTATTAAAGGTGGCTCACCATGCTTCTGAAAACAACAGGATTTTCACTTTGAATCTA  
TCTGCACCGTTTATTAGCCAGTTCTACAAGGAATCATTGATGAAAGTTATGCCTTATGTTGATATACTTTTTGGA  
AATGAGACAGAAGCTGCCACTTTTGCTAGAGAGCAAGGCTTTGAGACTAAAGACATTAAAGAGATAGCCAAAAAG  
ACACAAGCCCTGCCAAAGATGAACTCAAAGAGGCAGCGAATCGTGATCTTCACCCAAGGGAGAGATGACACTATA  
ATGGCTACAGAAAGTGAAGTCACTGCTTTTGCTGTCTTGGATCAAGACCAGAAAGAAATTATTGATACCAATGGA  
GCTGGAGATGCATTTGTTGGAGGTTTTCTGTCTCAACTGGTCTCTGACAAGCCTCTGACTGAATGTATCCGTGCT  
GGCCACTATGCAGCAAGCATCATAATTAGACGGACTGGCTGCACCTTTCCTGAGAAGCCAGACTTCCACTGATGG  
AAGAGCTGAAAACACAAGCCCAGGAGTGCAGACACTGCCCTAATTGCTTCCTGACAATTCCCATATTAATAAAGA  
AGAAAATTATCTGCCATTTTTTCTACTATAATAATGCTGAATCTTAATTTAGAGGGTACAAGGGTATGGTAATG  
CTTGTAGAATCTTTATTATCTCAACAATCTAAAAAATGATGTTTATTTCCATAGTTTGATAGTGCCACTTAAATG  
CCAATTAAACAAGAATATAACATTTCAATAGAAATTTTTATTTCAATTTCAATTACTTTGTAAATTCGTGTGTAT  
TTAGTACACTGATTTGTTTTTTTACATTTCTGCTTTGAATGCAGATGCAATTTAATATAATAGATTTTTTAAATGAA  
TTAATCTTAACATAGTAATCTTTAGCTTTTTTATACAAATATATTTAATTTAGGAGTATATGTGTGTCTATACACA  
CACATACATAAAATATACCACATATACACCTGATAGTCAAATAAGGTACAGAAATTTTATCTTGTCAATTATGCCA  
AATAATCTCTTTAATGTGCACTCAACATGTAATAAACTTTGGATAATTAAAAA

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**FIGURE 836**

MAAAEEEPKPKKLKVEAPQALRENILFGMGNPLLDISAVVDKDFLDKYS LKPNDQILAEDKHKELFDELVKKFKV  
EYHAGGSTQNSIKVAQWMIQQPHKAATFFGCIGIDKFGEILKRKAAEAHVDAHYEYQNEQPTGTCAACITGDNRS  
LIANLAAANCYKKEKHL DLEKNWMLVEKARVCYIAGFFLHVSPESVLKVAHHA SENNRIFTLNLSAPFISQFYKE  
SLMKVMPYVDILFGNETEAATFAREQGFETKDIKEIAKKTQALPKMNSKRQRIVIFTQGRDDTIMATESEVTAF  
VLDQDQKEIIDTNGAGDAFVGGFLSQLVSDKPLTECIRAGHYAASIIIRRTGCTFPEKPDFH

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**FIGURE 837**

GGTGTGTCCCGGTGTGGGGAGGCGACAGAGCCCTGGCACTTGAGGGTTGAGGGGGCCTCCCCAGCGCGGCGAAC  
CGTCTAGCCTCCGGAGGCCAGGCCGTGAGTGCGGGAGGTATACGCCAAGGCGGAAGAATTTTGCCACTCACTACC  
TGTGTGACCTCGGGTAAATTAGCCTTGGAACGTCAGTTTCTTCGTCTCTATAATTGAAATAATAATAGTACCTCT  
CTCAGGATTGTTGTGAGCCGTCAGTGAAACACTTAGAGCAGTTTCTGGCACATGGTAGAATTGGGCTATTTGCTT  
GAAGCTTCTTGGTGGCCCTTGCTAGCCCAGGAAGAACTTACATTTTGATTTTTTTGTACCATGGCTTTGGTTCA  
CAAATTGCTGCATGGTACTTATTTTCTCAGAAAATTCTCTAAGCCAACCTTCTGCCTTGTATCCATTTTGGGTAT  
CCGCTTTGCAGAGTATTCCAGTAGTCTTCAGAAACAGTGGCTTCTCCTGGCAAAGCCTCCTCACAGAGGAAGAC  
TGAAGGGGATTTGCAAGGAGATCACCAGAAAGAAGTTGCTTTGGATATAACTTCTTCTGAGGAGAAGCCTGATGT  
TAGTTTCGATAAAGCAATTAGAGATGAAGCAATATACCATTTTAGGCTTTTGAAGGATGAAATTGTGGATCATTG  
GAGAGGACCGGAAGGCCACCCCTCTGCATGAGGTCTTGCTGGAACAAGCCAAGGTTGCTGGCAATTCCGGGGGAA  
AGAAGATTTGGATAAGTGGACAGTGACTTCTGATAAGACGATTGGAGGCAGAAGTGAAGTGTTTTTGAAAATGGG  
CAAGAATAACCAAAGTGCCTGCTATATGGAACCTCTGAGCTCTGAGGCGCCTCAGGACGGCGAGTCTTCCCGAAG  
TGGGTACTGTGCAATGATATCCAGGATTCCAAGGGGTGCTTTTAAGAGGAAGATGTCTTACGATTGGTCCCAGTT  
CAATACTCTGTATCTCCGTGTACGTGGGGATGGTCGGCCTTGGATGGTGAATATCAAGGAGGACACAGATTTCTT  
CCAGAGGACGAATCAGATGTATAGTTACTTCATGTTCAACCGCGGGGGACCCTACTGGCAGGAGGTCAAGATTCC  
TTTTTCCAAATTTTTCTTCTCTAATCGAGGAAGAATCCGGGATGTTCAAGCATGAGCTTCCGCTTGATAAGATCTC  
TTCTATAGGATTCACCTTGGCTGATAAAGTGGATGGTCCATTCTTCTGGAGATAGATTTTATTGGCGTGTTTAC  
TGATCCAGCTCATAACAGAAGAATTTGCCTATGAAAATTCTCCAGAGCTTAACCCAAGGCTTTTTAAATTAAAGATC  
ATATGGTAGTTTTGTTTTACTAATCTAAGGGTACTAGCATCTACAATGATATAGACAAAATAAAATATTTCTTTA  
ATGGCATCCAAA

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**FIGURE 838**

MALVHKLLHGTYFLRKFSKPTSALYPFLGIRFAEYSSSLQKPVASPGKASSQRKTEGDLQGDHQKEVALDITSSE  
EKPDVSFDKAIRDEAIYHFRLKDEIVDHWRGPEGHPLHEVLLEQAKVVWQFRGKEDLDKWTVTSDKTIGGRSEV  
FLKMGKNNQSALLYGTLSSEAPQDGESSRSGYCAMISRI PRGAFKRKMSYDWSQFNTLYLRVRGDGRPWMVNIKE  
DIDFFQRTNQMYSYFMFTRGGPYWQEVKIPFSKFFFSNRGRIRDVQHELPLDKISSIGFTLADKVDGPFFLEIDF  
IGVFTDPAHTEEFAYENSPELNPRLFK



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**FIGURE 839**

GGCACGAGGGGGAGGAGGAGGAATGTGGAAGGTGGCGGCGCGAGCTGACAGGCGGTTCTCGGGCGGGCTGCG  
GCGACGGCCCCGAGCGCTTCTCCTTCGCCGAGGTTGCGCGCCCCCTCCTCGCCGTGCCCGGGCCGCGCGGGATC  
GTGCGTCGTCCCCGCCGCTCCCTGAAGGGAAGGAAGCGAGGCGGCGGCGGCGGCCCGGGAGCCGGAGCCTTCG  
CGGCGTCCACGTCCCTCCCCCGCTGCACCCCGCCCCGGCGCGAGAGGAGAGCGCGAGAGCCCCAGCCGCGGGCGG  
GCGGGCGGGCGAAGATGGCAGAGGCACCGGCTTCCCCGGCCCCGCTCTCTCCGCTCGAAGTGGAGCTGGACCCGGA  
GTTTCGAGCCCCAGAGCCGTCCGCGATCCTGTACGTGGCCCCCTGCAAAGGCCGGAGCTCCAAGCGAGCCCTGCCAA  
GCCCTCGGGGGAGACGGCCGCCGACTCCATGATCCCCGAGGAGGAGGACGATGAAGACGACGAGGACGGCGGGGG  
ACGGGCGGGCTCGGCCATGGCGATCGGCGGCGGCGGCGGGGAGCGGCACGCTGGGCTCCGGGCTGCTCCTTGAGGA  
CTCGGGCCCGGTGCTGGCACCCGGAGGGCAAGACCCCGGGTCTGGGCCAGCCACCGCGGCGGGCGGGCTGAGCGG  
GGGTACACAGGCGCTGCTGCAGCCTCAGCAACCGCTGCCACCGCCGAGCCGGGGGGCGGCTGGGGGCTCCGGGCA  
GCCGAGGAAATGTTCTGTCGCGGCGGAACGCCTGGGGAAACCTGTCTACGCGGACCTGATCACCCGCGCCATCGA  
GAGCTCCCCGACAAACGGCTCACTCTGTCCAGATCTACGAGTGGATGGTGCCTTGCCTGCTGCTTCAAGGA  
TAAGGGCGACAGCAACAGCTCTGCCGGCTGGAAGAACTCCATCCGGCACAACCTGTCACTGCATAGTCGATTTCAT  
GCGGGTCCAGAATGAGGGAAGTGGCAAGAGCTCTTGGTGGATCATCAACCCTGATGGGGGGAAGAGCGGAAAAGC  
CCCCCGGCGGCGGGCTGTCTCCATGGACAATAGCAACAAGTATACCAAGAGCCGTGGCCGCGCAGCCAAGAAGAA  
GGCAGCCCTGCAGACAGCCCCGAATCAGCTGACGACAGTCCCTCCCAGCTCTCCAAGTGGCCTGGCAGCCCCAC  
GTCACGCAGCAGTGATGAGCTGGATGCGTGGACGGAAGTTCGGTTCACGCACCAATTCTAACGCCAGCACAGTCAG  
TGGCCGCTGTCGCCCATCATGGCAAGCACAGAGTTGGATGAAGTCCAGGACGATGATGCGCCTCTCTCGCCCAT  
GCTCTACAGCAGCTCAGCCAGCCTGTACCTTCAGTAAGCAAGCCGTGCACGGTGGAACTGCCACGGCTGACTGA  
TATGGCAGGCACCATGAATCTGAATGATGGGCTGACTGAAAACCTCATGGACGACCTGCTGGATAACATCACGCT  
CCCGCCATCCCAGCCATCGCCACTGGGGGACTCATGCAGCGGAGCTCTAGCTTCCCGTATACCACCAAGGGCTC  
GGGCTGGGCTCCCCAACAGCTCCTTTAACAGCACGGTGTTCGGACCTTCATCTCTGAAGTCCCTACGCCAGTC  
TCCCATGCAGACCATCCAAGAGAACAAGCCAGCTACCTTCTCTCCATGTCACACTATGGTAACCAGACACTCCA  
GGACCTGCTCACTTCGGACTCACTTAGCCACAGCGATGTCATGATGACACAGTCGGACCCCTTGATGTCTCAGGC  
CAGCACCGCTGTGTCTGCCCAGAATTCCCGCCGGAACGTGATGCTTCGCAATGATCCGATGATGTCTTTGTGTC  
CCAGCCTAACAGGGAAGTTTGGTCAATCAGAACTTGCTCCACCACCAGCACCAACCCAGGGCGCTCTTGGTGG  
CAGCCGTGCCCTTGTGCAATTCTGTGAGCAACATGGGCTTGAGTGAGTCCAGCAGCCTTGGGTGAGCCAAACACCA  
GCAGCAGTCTCCTGTGAGCCAGTCTATGCAAACCTCTCGGACTCTCTCTCAGGCTCCTCCTTGACTCAACTAG  
TGCAAACCTGCCCGTCATGGGCCATGAGAAGTTCCCCAGCGACTTGAGCTGAGCATGTTCAATGGGAGCTTGGA  
ATGTGACATGGAGTCCATTATCCGTAGTGAAGTCACTGATGATGAGGTTGGATTTTAACTTTGATTCCCTCAT  
CTCCACACAGAATGTTGTTGGTTTGAACGTGGGGAAGTGGGCAAAGCAGACCCTCAAAGTACACAAGACCTACAGAGAA  
GCCAGGCTTGAAGGATCACTGAGGAAGGGGAAGTGGGCAAAGCAGACCCTCAAAGTACACAAGACCTACAGAGAA  
AACCTTTGCCAAATCTGCTCTCAGCAAGTGGACAGTGATACCGTTTACAGCTTAACACCTTTGTGAATCCCACG  
CCATTTTCTAACCCAGCAGAGACTGTTAATGGCCCCCTACCCTGGGTGAAGCACTTACCCTTGGAAACAGAACTC  
TAAAAAGTATGCAAAATCTTCCTTGTACAGGGTGGTGAGCCGCTGCCAGTGGAGGACAGCACCCCTCAGCACCA  
CCCACCTCATTCAGAGCACACCGTGAGCCCCCGTCGGCCATTCTGTGGTGTGTTTAAATATTGCGATGGTTTATGG  
GACGTTTTAAGTGTGTTCTTGTGTTTGTGTTTTCCTTTGACTTTCTGAGTTTTTACATGCATTAAGTTGCGGTAT  
TTTTCTGTAAAAATGTTAACCGTCCTTCCCTTAGCAAATTTAAAAACAGAAAGAAAATGTTGTACCAGTTACCAT  
TCCGGGTTGAGCATCACAAGCTTTGAGCGCATGGAAGTCCATAAACTAACAAATTACATAAACTAAAGGGGGA  
TTTTCTTTCTTTTGTGTTGGTAGAAAATTATCCTTTTCTAAAACTGAACAATGGCACAATTGTTTGCTATGT  
GCACCCGTCCAGGACAGAACCCTGCATAGGCAAAAGGAGTGGAGCACAGCGTCCGGCCAGTGTGTTTCCGGTTC  
TGAGTCAGGGTGATCTGTGGACGGGACCCAGCACCAAGTCTACGGGTGCCAGATCAGTAGGGCCTGTGATTTCC  
TGTCAGTGTCTCAGCTAATGTGAACAGTGTGGTCTGCTGGTTAGAACTAGAATATTGATATTTTTCAGGAAAG  
AAATCAGCTCAGCTCTCCACTCATTGCCAAATGTCACTAAAGGGTTTAGTTTTAAGGAGAAAGAAAAAAAAAAAA  
AAAAAAAA

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**FIGURE 840**

MAEAPASPAPLSPLEVELDPEFEPQSRPRSCWPLQRPQLQASPAKPSGETAADSMIPEEEDDEDDEDGGGRAGS  
AMAIGGGGGSGTLGSGLLLED SARVLAPGGQDPGSGPATAAGGLSGGTQALLQPQQPLPPPQPGAAGGSGQPRKC  
SSRRNAWGNLSYADLITRAIESSPDKRLTLSQIYEWVRCVPYFKDKGDSNSSAGWKNSIRHNLSLHSRFRMRVQN  
EGTGKSSWWIINPDGGKSGKAPRRRAVSMDNSNKYTKSRGRAAKKKAALQTAPESADDSPSQLSKWPGSPTSRS  
DELDATWDFRSRTNSNASTVSGRLSPIMASTELDEVQDDDAPLSPMLYSSSASLSPSVSKPCTVELPRLTDMAGT  
MNLNDGLTENLMDDLLDNITLPPSQPSPTGGLMQRSSSFYTTKGSGLGSPSTSSFNSTVFGPSSLNSLRQSPMQT  
IQENKPATFSSMSHYGNQTLQDLLTSDSLSHSDVMMTQSDPLMSQASTAVSAQNSRRNVMLRNDPMMSFQAQPNQ  
GSLVNQNLHHQHQTQALGGSRALNSVSNMGLSESSSLGSAKHQQQSPVSQSMQTLSDSLSGSSLYSTSANLP  
VMGHEKFPSDLDLDMFNGLSLECDMESIIRSELMDADGLDFNFDSLISTQNVVGLNVGNFTGAKQASSQSWVPG

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**FIGURE 841**

CGGCGCGATGCGCGGAGACCCCCGCGGGGGCGGCGGCGGCCGTGAGCCCCGATGAGGCCCCGAGCGTCCCCGGCCG  
CGCGGCAGCGCCCCCGGCCCGATGGAGACCCCGCCGTGGGACCCAGCCCCGCAACGACTCGCTGCCGCCCACGCTG  
ACCCCGGCCGTGCCCCCTACGTGAAGCTTGGCCTCACCGTCGTCTACACCGTGTTCTACGCGCTGCTCTTCGTG  
TTCATCTACGTGCAGCTCTGGCTGGTGCTGCGTTACCGCCACAAGCGGCTCAGCTACCAGAGCGTCTTCCTCTTT  
CTCTGCCTCTTCTGGGCCTCCCTGCGGACCGTCCTCTTCTCCTTCTACTTCAAAGACTTCGTGGCGGCCAATTGC  
CTCAGCCCCCTTCGTCTTCTGGCTGCTCTACIGCTTCCCTGTGTGCCTGCAGTTTTTCACCCTCACGCTGATGAAC  
TTGTACTTCACGCAGGTGATTTTCAAAGCCAAGTCAAAATATTCTCCAGAATTACTCAAATACCGGTTGCCCTC  
TACCTGGCCTCCCTCTTCATCAGCCTTGTTTTCTGTGGTGAATTTAACCTGTGCTGTGCTGGTAAAGACGGGA  
AATTGGGAGAGGAAGGTTATCGTCTCTGTGCGAGTGGCCATTAATGACACGCTCTTCGTGCTGTGTGCCGTCTCT  
CTCTCCATCTGTCTCTACAAAATCTCTAAGATGTCCTTAGCCAACATTTACTTGGAGTCCAAGGGCTCCTCCGTG  
TGTCAAGTGAAGTCCATCGGTGTACCGTGATACTGCTTTACACCTCTCGGGCCTGCTACAACCTGTTTCATCCTG  
TCATTTTCTCAGAACAAAGAGCGTCCATTCTTTGATTATGACTGGTACAATGTATCAGACCAGGCAGATTTGAAG  
AATCAGCTGGGAGATGCTGGATACGTATTATTTGGAGTGGTGTATTTGTTTGGGAACCTTTACCTACCACCTTA  
GTCGTTTTATTTCTTCCGAGTTAGAAATCCTACAAAGGACCTTACCAACCCTGGAATGGTCCCCAGCCATGGATT  
AGTCCCAGATCTTATTTCTTTGACAACCCTCGAAGATATGACAGTGATGATGACCTTGCCTGGAACATTGCCCT  
CAGGGACTTCAGGGAGGTTTTGCTCCAGATTACTATGATTGGGGACAACAACTAACAGCTTCCTGGCACAAGCA  
GGAACCTTTGCAAGACTCAACTTTGGATCCTGACAAACCAAGCCTTGGGTAGCATCAGTTAACAGTTTTATGGACG  
ATTCTCAGATGAAAAGCTTCAGAAAAGCATAGTGACAGCTGAATTTTATAGGGCACTTTTCTTAAGAAATAGAA  
CTTGATTTTTATTTGTTACAGGTTTCCAATGGCCCCATAGGAATAAGCAATAATGTAGACTGATAAACCTTATT  
TTAGTACTAAAGAGGGAGCCTTGCTATTTAGTGGGTATAATTTAACTTTTTTAAAGAAAATCTGTACTTTTATA  
AAGATGTATTTTGTATAACTTAAATAATAATGCTAAAGTATACTAGGGTTTTTTTTTTCTTGAGAATGTTACTGCA  
ATCATGTTGTAGTTTGCACAGACTTTTATGCATAATTCACCTTTAAAAATATAGAATATATGGTCTAATAGTTTTT  
TAAAGCTTTTGGACTAAAGTATTCCACAAATCTTACCTCTTTAGGTCACTGATGGTCACTCCGATTCTGAGTGCC  
ACATTGGTAGACTCCTAAAATACAGTTGACAACCTTAGCCAATTGCAACTCCAGTGTTGATAATTAAGGAAATGAAATG  
GTAAAGCAGCAGACTGTAAGGTCTTTAGAGATTTTTTTTTTAAAGGTTAGGCCGTAGGTTCTCAAGGAATCTCTT  
AAGTTTTGCCCAAAGACTGGTACTTCTTTTCTAGTAGGGCGCTAATGTATACACATTAATGATAAGTTGATAACAT  
TAAAAATGTAGCTGACTTATCCTATTAAACCTCCTCTGCTATGTTTAC

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**FIGURE 842**

MRPERPRPRGSAPGPMETPPWDFARNDSLPPTLTPAVPPYVKLGLTVVYTVFYALLFVFIYVQLWLVLRYRHKRL  
SYQSVFLFLCLFWASLRTVLFSEFYFKDFVAANSLSPFVFWLLYCFPVCLQFFTLTLMNLYFTQVIFKAKSKYSPE  
LLKYRLPLYLASLFI SLVFLLVNLTCAVLVKTGNWERKVIVSVRVAINDTLFVLCÁVSL SICLYKISKMSLANIY  
LESKGSSVCQVTAIGVTVILLYTSRACYNLFILSFSQNKSVHSFDYDWINVSDQADLKNQLGDAGYVLFVGVVLFV  
WELLPTTLVVYFFRVRNPTKDLTNPGMVPSHGFSPRSYFFDNPRRYDSDDDLAWNIA PQGLQGGFAPDYDYGQQ  
TNSFLAQAGTLQDSTLDPDKPSLG

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**FIGURE 843**

GCCCCCGGTCCACGCCGCGCACCGCTCCGAGGGCCAGCGCCACCCGCTCCGCAGCCGGCACC**ATG**CGCGAGATC  
GTGCACATCCAGGCGGGCCAGTGCGGCAACCAGATCGGCGCCAAGTTTTGGGAGGTCATCAGCGATGAGCATGGG  
ATCGACCCACAGGCAGTTACCATGGAGACAGTGACTTGCAGCTGGAGAGAATCAACGTGTACTACAATGAGGCT  
GCTGGTAACAAATATGTACCTCGGGCCATCCTGGTGGATCTGGAGCCTGGCACCATGGACTCTGTCAAGTCTGGA  
CCCTTCGGCCAGATCTTCAGACCAGACAACCTTCGTGTTTCGGCCAGAGTGGAGCCGGGAATAACTGGGCCAAGGGC  
CACTACACAGAGGGAGCCGAGCTGGTGCAGCTCGGTCTTGGATGTGGTGAGGAAGGAGTCAGAGAGCTGTGACTGT  
CTCCAGGGCTTCCAGCTGACCCACTCTCTGGGGGGCGGCACGGGGTCCGGGATGGGCACCCTGCTCATCAGCAAG  
ATCCGGGAAGAGTACCCAGACCGCATCATGAACACCTTCAGCGTCATGCCCTCACCCAAGGTGTGAGACACGGTG  
GTGGAGCCCTACAACGCCACCCTCTCGGTCCACCAGCTGGTGGAAAACACAGATGAAACCTACTCCATTGATAAC  
GAGGCCCTGTATGACATCTGCTTCCGCACCCTGAAGCTGACCACCCCCACCTACGGGGACCTCAACCACCTGGTG  
TCGGCCACCATGAGCGGGGTCACCACCTGCCTGCGCTTCCCGGGCCAGCTGAACGCAGACCTGCGCAAGCTGGCG  
GTGAACATGGTGCCCTTCCCTCGCCTGCACTTCTTCATGCCCGGCTTCGCGCCCCTGACCAGCCGGGGCAGCCAG  
CAGTACCGGGCGCTCACGGTGCCCGAGCTCACCAGCAGATGTTGACTCCAAGAACATGATGGCCGCCTGCGAC  
CCGCGCCACGGCCGCTACCTGACGGTGGCTGCCATCTTCCGGGGCCGCATGTCCATGAAGGAGGTGGACGAGCAG  
ATGCTCAACGTGCAGAACAAGAACAGCAGCTACTTCGTGGAGTGGATCCCCAACAACGTGAAGACGGCCGTGTGC  
GACATCCCGCCCCGCGGCCTGAAGATGTGCGCCACCTTCATCGGCAACAGCACGGCCATCCAGGAGCTGTTCAAG  
CGCATCTCCGAGCAGTTCACGGCCATGTTCCGGCGCAAGGCCTTCCTGCACTGGTACACGGGCGAGGGCATGGAC  
GAGATGGAGTTCACCGAGGCCGAGAGCAACATGAACGACCTGGTGTCCGAGTACCAGCAGTACCAGGACGCCACG  
GCCGACGAACAAGGGGAGTTCGAGGAGGAGGAGGGCGAGGACGAGGCT**TAAAAA**CTTCTCAGATCAATCGTGCAT  
CCTTAGTGAACCTTCTGTTGTCCTCAAGCATGGTCTTTCTACTTGTAACCTATGGTGCTCAGTTTTGCCTCTGTTA  
GAAATTCACACTGTTGATGTAATGATGTGGAACCTCTCTAAAAATTACAGTATTGTCTGTGAAGGTATCTATACT  
AATAAAAAAGCATGTGTAG

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**FIGURE 844**

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGSYHGDSDLQLERINVYYNEAAGNKYVPRAILVDLEPGTMDS  
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKESESCDCLQGFQLTHSLGGGTGSGMGTL  
LISKIREEYPDRIMNTFSVMPSPKVSDTVVEPYNATLSVHQLVENTDETYSIDNEALYDICFRTLKLTTPTYGDL  
NHLVSATMSGVTTCLRFPGQLNADLRKLAVNMVFPRLHFFMPGFAPLTSRGSQQYRALTVPELTQQMFDSKNMM  
AACDPRHGRYLTVAAIIFRGRMSMKEVDEQMLNVQKNSSYFVEWIPNNVKTAVCDIPPRGLKMSATFIGNSTAIQ  
ELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVSEYQQYQDATADEQGEFEEEEGEDEA

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**FIGURE 845**

GCCACGGCGCGGACGCC**ATG**CACACGGACCCTGACTACTCGGCTGCCTATGTCGTCATAGAACTGATGCAGAAAG  
ATGGAATCAAGGGGTGTGGAATTACCTTCACTCTGGGAAAAGGCACTGAAGTTGTTGTCTGTGCTGTGAATGCCC  
TCGCCCACCATGTGCTCAACAAGGACCTCAAGGACATTGTTGGTGACTTCAGAGGCTTCTATAGGCAGCTCACAA  
GTGATGGGCAGCTCAGATGGATTGGTCCAGAAAAGGGCGTGGTGCACCTGGCGACAGCGGCCGCTCTAAACGCGG  
TGTGGGACTTGTGGGCCAAGCAGGAGGGAAAGCCTGTCTGGAAGTTACTTGTGGACATGGATCCCAGGATGCTGG  
TATCCTGCATAGATTTTCAAGGTACATCACTGATGTCTGACTGAGGAGGATGCCCTAGAAATACTGCAGAAAAGGTC  
AAATTGGTAAAAAAGAAAGAGAGAAGCAAATGCTGGCACAAGGATACCCTGCTTACACGACATCGTGCGCCTGGC  
TGGGGTACTCAGATGACACGTTGAAGCAGCTCTGTGCCCAGGCGCTGAAGGATGGCTGGACCAGGTTTTAAAGTAA  
AGGTGGGTGCTGATCTCCAGGATGACATGCGAAGATGCCAAATCATCCGAGACATGATTGGACCGGAAAAGACTT  
TGATGATGGATGCCAACCAGCGCTGGGATGTGCCTGAGGCGGTGGAGTGGATGTCCAAGCTGGCCAAGTTCAAGC  
CATTGTGGATTGAGGAGCCAACCTCCCCTGATGACATTCTGGGGCACGCCACCATTTCCAAGGCACTGGTCCCAT  
TAGGAATTGGCATTGCCACAGGAGAACAGTGCCACAATAGAGTGATATTTAAGCAACTCCTACAGGCGAAGGCC  
TGCAGTTCCTCCAGATTGACAGTTGCAGACTGGGCAGTGTCAATGAGAACCTCTCAGTATTGCTGATGGCCAAAA  
AGTTTGAAATTCCTGTTTGCCCCATGCTGGTGGAGTTGGCCTCTGTGAACTGGTGCAGCACCTGATTATATTTG  
ACTACATATCAGTTTCTGCAAGCCTTGAAAATAGGGTGTGTGAGTATGTTGACCACCTGCATGAGCATTTCAGT  
ATCCCGTGATGATCCAGCGGGCTTCCTACATGCCTCCCAAGGATCCCGGCTACTCAACAGAAATGAAGGAGGAAT  
CTGTAAAGAAACACCAGTATCCAGATGGTGAAGTTTGGAAGAACTCCTTCCTGCTCAAGAAAAT**TAA**GTGCTCA  
GCCCCAACAACTTTTTTCTTCTGAAGTGAAAGGGCTTAAATTTCTTGGAATAGTTTTACAAAAATGGATTTA  
AAAAATCCTACCGATCAAGATGAGTTTCACTAGAAAGTCATACCACCCTCAGGAATCAGCTAAGTAATTATTACTT  
GATTCTTTTAGCAAATCAATGCACGTTATCCTACTTAATCCTTAAATAAGTTTAGATTTAACTAACCCAAAGTCC  
AGGAGGATGTTCTTACAAAAATAGCTATATCAAGGGCTGGCACCTAGACATTAACTGTACTTTGAAAATAAAAA  
AA

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**FIGURE 846**

MHTDPDYSAAYVVIETDAEDGIKCGITFTLGKGTEVVVCAVNALAHHVLNKDLKDIVGDFRGFYRQLTSDGQLR  
WIGPEKGVVHLATAAVLNAVWDLWAKQEGKPVWKLVDMDPRMLVSCIDFRYITDVLTEEDALEILQKGQIGKKE  
REKQMLAQGYPAYTTSCAWLGYSDDTLKQLCAQALKDGWTRFKVKVGADLQDDMRRCQIIRDMIGPEKTLMM DAN  
QRWDVPEAVEWMSKLAKFKPLWIEEPTSPDDILGHATISKALVPLGIGIATGEQCHNRVIFKQLLQAKALQFLQI  
DSCRLGSVNENLSVLLMAKKFEIPVCPHAGGVGLCELVQHLLIFDYISVSASLENRVCEYVDHLHEHFKYPVMIQ  
RASYPFKDPGYSTEMKEESVKKHQYPDGEVWKKLLPAQEN



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**FIGURE 847**

TGCTCCCTGAACACTCGGAGGTGGCGGTGGATCTTACTCCTTCCAGCCAGTGAGGATCCAGCAACCTGCTCCGTG  
CCTCCCGCGCCTGTTGGTTGGAAGTGACGACCTTGAAGATCGGCCGTTGGAAGTGACGACCTTGAAGATCGGCG  
GGCGCAGCGGGGCCGAGGGGGCGGGTCTGGCGCTAGGTCCAGCCCCTGCGTGCCGGGAACCCAGAGGAGGTGCG  
AGTTCAGCCCAGCTGAGGCCTGTCTGCAGAAATCGACACCAACCAGCATC**ATGT**CCATGACACTGGGGTACTGGGA  
CATCCGCGGGCTGGCCCCACGCCATCCGCTGCTCCTGGAATACACAGACTCAAGCTACGAGGAAAAGAAGTATAC  
GATGGGGGACGCTCCTGACTATGACAGAAGCCAGTGGCTGAATGAAAAATTCAAGCTGGGGCTGGACTTTCCCAA  
TCTGCCCTACTTGATTGATGGGGCTCACAAGATCACCCAGAGCAACGCCATCCTGTGCTACATTGCCCCGAAGCA  
CAACCTGTGTGGGGAGACAGAAGAGGAGAAGATTTCGTGTGGACATTTTGGAGAACCAGGCTATGGACGTCTCCAA  
TCAGCTGGCCAGAGTCTGCTACAGCCCTGACTTTGAGAAACTGAAGCCAGAATACTTGGAGGAACCTTCCACAAAT  
GATGCAGCACTTCTCACAGTTCTGGGGAAGAGGCCATGGTTTGTGGAGACAAGATCACCTTTGTAGATTTCTCT  
CGCCTATGATGTCCTTGACCTCCACCGTATATTTGAGCCCAACTGCTTGGACGCCTTCCCAAATCTGAAGGACTT  
CATCTCCCGCTTTGAGGGCTTGGAGAAGATCTCTGCCTACATGAAGTCCAGCCGCTTCTTCCAAAACCTCTGTA  
CACAAGGGTGGCTGTCTGGGGCAACAAG**TAA**TGCCTTGAAGGCCAGGAGGTGGGAGTGAGGAGCCCATACTCAGC  
CTGCTGCCCAGGCTGTGCAGCGCAGCTGGACTCTGCATCCAGCACCTGCCTCCTCGTTCCTTTCTCCTGTTTAT  
TCCCATCTTTACCCCCAAGACTTTATTGGGCCTCTTCACTTCCCCTAAACCCCTGTCCCATGCAGGCCCTTTGAA  
GCCTCAGCTACCTACTTTCTTTCATGAACATCCCCCTCCCAACACTACCCTTCCCTGCACTAAAGCCAGCCTGAC  
CTTCTTCTCTGTTAGTGGTTGTATCTGCTTTGAAGGGCCTACCTGGCCCCTCGCCTGTGGAGCTCAGCCCTGAGC  
TGTCCTCCGTGTTGCATGACAGCATTGACTGGTTTACAGGCCCTGCTCCTGCAGCATGGCCCTGCCTTAGGCCTA  
CCTGATCAAAATAAAGCCTCAGCCACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 848**

MSMTLGWDIRGLAHAI RLLLEYTDSSYEKKYTMGDAPDYDRSQWLNEKFKLGLDFPNLPYLIDGAHKITQSNA  
ILCYIARKHNL CGETEE EKIRVDILENQAMDVSNQLARVCYSPDFEKLKPEYLEELPTMMQHFSQFLGKRPFVVG  
DKITFVDFLAYDVLDLHRIFEPNCLDAFPNLKDFISRFEGLEKISAYMKSSRFLPKPLYTRVAVWGNK

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**FIGURE 849A**

CGGGGCTGCCGGGGCCGGGACTGGGGGAGCCGGGCCCCGGGGCCGCCTGCTGCCTCCGCCCCGCGCGGGGTCCCC  
AGCCGCCCCCGCTGCCGTGTCCCCTGCGGGCCGGCCAGCCCGTCCCCAGCCCCGGCCTCCCGCGGACCCATGCC  
CGCCCGTATCGGCTACTACGAGATCGACCGCACCATCGGCAAGGGCAACTTCGCGGTGGTCAAGCGGGCCACGCA  
CCTCGTCACCAAGGCCAAGGTTGCTATCAAGATCATAGATAAGACCCAGCTGGATGAAGAAAACCTTGAAGAAGAT  
TTTCCGGGAAGTTCAAATTATGAAGATGCTTTGCCACCCCCATATCATCAGGCTCTACCAGGTTATGGAGACAGA  
ACGGATGATTTATCTGGTGACAGAATATGCTAGTGAGGGGAAATATTTGACCACCTGGTGGCCCATGGTAGAAT  
GGCAGAAAAGGAGGCACGTGGAAGTTCAAACAGATCGTCACAGCTGTCTATTTTTGTCACTGTGCGAACATTGT  
TCATCGTGATTTAAAAGCTGAAAATTTACTTCTGGATGCCAATCTGAATATCAAAATAGCAGATTTTGGTTTCAG  
TAACCTCTTCACTCCTGGGCAGCTGCTGAAGACCTGGTGTGGCAGCCCTCCCTATGCTGCACCTGAACCTCTTGA  
AGGAAAAGAAATATGATGGGCCCCAAGTGGACATCTGGAGCCTTGAGTTGTCTCTACGTGCTTGTGTGCGGTGC  
CCTGCCATTTGATGGAAGCACACTGCAGAATCTGCGGGCCCGCTGCTGAGTGGAAAGTTCCGCATCCCATTTTT  
TATGTCCACAGAATGTGAGCATTGATCCGCCATATGTTGGTGTTAGATCCCAATAAGCGCCTCTCCATGGAGCA  
GATCTGCAAGCACAAGTGGATGAAGCTAGGGGACGCCGATCCCAACTTTGACAGGTTAATAGCTGAATGCCAACA  
ACTAAAGGAAGAAAGACAGGTGGACCCCCCTGAATGAGGATGTCCTCTTGGCCATGGAGGACATGGGACTGGACAA  
AGAACAGACACTGCAGGCGGAGCAGGCAGGTACTGCTATGAACATCAGCGTTCCCCAGGTGCAGCTGATCAACCC  
AGAGAACCAAATTGTGGAGCCGGATGGGACACTGAATTTGGACAGTGATGAGGGTGAAGAGCCTTCCCCTGAAGC  
ATTGGTGCCTATTTGTCAATGAGGAGGCACACAGTGGGTGTGGCTGACCCACGCACGGAAGTTATGGAAGATCT  
GCAGAAGCTCCTACCTGGCTTTTCTGGAGTCAACCCCCAGGCTCCATTCTGCAGGTGGCCCCCTAATGTGAACCT  
CATGCACAACCTGTTGCCTATGCAAACTTGCAACCAACCGGGCAACTTGAGTACAAGGAGCAGTCTCTCTTACA  
GCCGCCACGCTACAGCTGTTGAATGGAATGGGCCCCCTTGGCCGGAGGGCATCAGATGGAGGAGCCAACATCCA  
ACTGCATGCCCAGCAGCTGCTGAAGCGCCACGGGGACCCTCTCCGCTTGTACCATGACACCAGCAGTGCCAGC  
AGTTACCCCTGTGGACGAGGAGAGCTCAGACGGGGAGCCAGACCAGGAAGCTGTGCAGAGCTCTACCTACAAGGA  
CTCCAACACTCTGCACCTCCCTACGGAGCGTTTCTCCCCGTGCGCCGGTTCTCAGATGGGGCTGCGAGCATCCA  
GGCCTTCAAAGCTCACCTGGAAAAAATGGGCAACAACAGCAGCATCAAACAGCTGCAGCAGGAGTGTGAGCAGCT  
GCAGAAGATGTACGGGGGGCAGATTGATGAAAGAACCCTGGAGAAGACCCAGCAGCAGCATATGTTATACCAGCA  
GGAGCAGCACCATCAAATTCTCCAGCAACAAATTCAAGACTCTATCTGTCTCTCAGCCATCTCCACCTCTTCA  
GGCTGCATGTGAAAATCAGCCAGCCCTCCTTACCCATCAGCTCCAGAGGTTAAGGATTCAGCCTTCAAGCCCACC  
CCCCAACCCACCCCAACAACCATCTCTTCAGGCAGCCAGTAATAGTCTCTCCCCCATGAGCAGTGCCATGATCCA  
GCCTCACGGGGCTGCATCTTCTTCCAGTTTCAAGGCTTACCTTCCCGCAGTGCAATCTTTCAGCAGCAACCTGA  
GAACTGTTCTCTCTCTCCCAACGTGGCACTAACCTGCTTGGGTATGCAGCAGCCTGCTCAGTCACAGCAGGTAC  
CATCCAAGTCCAAGAGCCTGTTGACATGCTCAGCAACATGCCAGGCACAGCTGCAGGCTCCAGTGGGCGCGGCAT  
CTCCATCAGCCCCAGTGTGCTGAGTGCAGATGCAGACCCGTACCAACCTGATGGCCACCCTCAGCTATGGGCA  
CCGTCCCTTGTCCAAGCAGCTGAGTGTGACAGTGCAGAGGCTCACAGCTTGAACGTGAATCGGTTCTCCCCTGC  
TAACTACGACCAGGCGCATTTACACCCCCATCTGTTTTCGGACCAGTCCCGGGGTTCCCCAGCAGCTACAGCCC  
TTCAACAGGAGTGGGGTTCTCTCCAACCCAAGCCCTGAAAGTCCCTCCACTTGACCAATTCCCCACCTTCCCTCC  
CAGTGCACATCAGCAGCCGCCACACTATACCAGCTCGGCACTACAGCAGGCCCTGCTGTCTCCCACGCCGCCAGA  
CTATACAAGACACCAGCAGGTACCCACATCCTTCAAGGACTGCTTTCTCCCCGGCATTGCTCACCGGCCACTC  
GGACATCCGGCTGCCCCCAACAGAGTTTGACAGCTCATTTAAAGGCAGCAGCAACAACGGCAGCAGCAGCAGCA  
ACAGCAGCAACAGCAAGAATACCAGGAAGTTTCAGGCACATGAACCAAGGGGATGCGGGGAGTCTGGCTCCAG  
CCTTGGGGGACAGAGCATGACAGAGCGCCAGGCTTTATCTTATCAAAATGCTGACTCTTATCACCACACGATCCA  
GAACAGCGACGATGCTTATGTACAGCTGGATAACTTGCCAGGAATGAGTCTCGTGGCTGGGAAAGCACTTAGCTC  
TGCCCGGATGTCGGATGCAGTTCTCAGTCAGTCTTCGCTCATGGGCAGCCAGCAGTTTCAGGATGGGGAAAATGA  
GGAATGTGGGGCAAGCCTGGGAGGTCATGAGCACCCAGACCTGAGTGATGGCAGCCAGCATTTAAACTCCTCTTG  
CTATCCATCTACGTGTATTACAGACATTCTGCTCAGCTACAAGCACCCCGAAGTCTCCTTCAGCATGGAGCAGGC  
AGGCGTGTAACAAGAAACAGAGAGAGAGCAAGAGGTCCCGAGTCCCTCCTAGTCTTTTCATCCTGAATTTGCACA  
GAGGAAAGCGGGTGCCCGGCATGGCCATCCTGATGTTGCTGGCGGGATCCCCATGCACCTTGTCTTCTCCACTG  
ATACTGGCAGCTCGGCTCCTGGACCCAAGATCCCTTGAGTGGAATTTCTGCAGTGCAAGAGCCCTTCGTGGGAGCT  
GTCCCATGTTTCCATGGTCCCCAGTCTCCCTCCACTTGGTGGGGTCACCAACTACTACCCAGAAGGGGGCTTAC

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**FIGURE 849B**

CAAGAAAGCCCTAAAAAGCTGTTGACTTATCTGCGCTTGTTCCAACCTCTTATGCCCCAACCTGCCCTACCACCA  
CCACGCGCTCAGCCTGATGTGTTTACATGGTACTGTATGTATGGGAGAGCAGACTGCACCCTCCAGCAACAACAG  
ATGAAAGCCAGTGAGCCTACTAACCGTGCCATCTTGCAAACCTACACTTTAAAAAAAACCTCATTGCTTTGTATTGT  
AGTAACCAATATGTGCAGTATACGTTGAATGTATATGAACATACTTTCCTATTTCTGTTCTTTGAAAATGTCAGA  
AATATTTTTTTCTTTCTCATTTTATGTTGAACTAAAAAGGATTAAAAAAAATCTCC

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**FIGURE 850**

GAAGAGTGGAGPAGRLLPPPAPGSPAAPAAVSPAAGQPRPPAPASRGPMMPARIGYYEIDRTIGKGNFAVVKRATH  
LVTKAKVAIKIIDKTQLDEENLKKIFREVQIMKMLCHPHIIRLYQVMETERMIYLVTEYASGGEIFDHLVAHGRM  
AEKEARRKFKQIVTAVYFCHCRNIVHRDLKAENLLLDANLNIAIDFGFSNLFTPGQLLKTWCGSPPYAAPELFE  
GKEYDGPVKVDIWSLGVVLYVLVCGALPFDGSTLQNLRARVLSGKFRIPFFMSTECEHLIRHMLVLDPNKRISMEQ  
ICKHKWMLGDADEPNFDRLIAECQQLKEERQVDPLNEDVLLAMEDMGLDKEQTLQAEQAGTAMNISVPQVQLINP  
ENQIVEPDGTLNLDSDGEGEPSPEALVRYLSMRRHTVGVADPRTEVMEDLQKLLPGFPGVNPQAPFLQVAPNVNF  
MHNLLPMQNLQPTGQLEYKEQSLQPPTLQLLNGMGLGRRASDGGANIQLHAQQLLKRPRGPSPLVTMTPAVPA  
VTPVDEESSDGEPPDQEAQSSSTYKDSNTLHLPTEFRFSPVRRFSDGAASIQAFAHLEKMGNNSSIKQLQQECEQL  
QKMYGGQIDERTLEKTQQQHMLYQQEQHHQILQQQIQDSICPPQPSPLQAACENQPALLTQLRLRIQPSPP  
PNHPNNHLFRQPSNSPPPMSSAMIQPHGAASSSQFQGLPSRSAIFQQQPENCSSPPNVALTCLGMQQAQSQQVT  
IQVQEPVDMLSNMPGTAAGSSSGRGISISPSAGQMOMQHRTNLMATLSYGHRPLSKQLSADSAEAHSLNVNRFSPA  
NYDQAHLPFLFSDQSRGSPSSYSPSTGVGFSPTQALKVPPLDQFPTFPFSAHQPPHYTTTALQQALLSPTFPD  
YTRHQQVPHILQGLLSPRHSLTGHSDIRLPTEFAQLIKRQQQQRQQQQQQQQQEQEYQELFRHMNQGDAGSLAPS  
LGGQSMTERQALSYQNADSYHHTIQNSDDAYVQLDNLPGMSLVAGKALSSARMSDAVLSQSSLMGSQQFQDGENE  
ECGASLGGHEHPDLSDGSLNSSCYPSTCITDILLSYKHPEVSFSMEQAGV

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**FIGURE 851A**

CGACCGCGGCGGCTGGAACCCTGATTGCTGTCCTTCAACGTGTTCAATTATGAAGTTATTAGTAATACTTTTGTTT  
TCTGGACTTATAACTGGTTTTAGAAAGTGAAGTCTTCTCCTCTAGTTTGCCACCTAAGTTACTACTAGTATCCTTTGAT  
GGCTTCAGAGCTGATTATCTGAAGAACTATGAATTTCTCATCTCCAGAATTTTATCAAAGAAGGTGTTTTGGTA  
GAGCATGTTAAAAATGTTTTTATCACAAAACATTTCCAAACCCTACAGTATTGTGACAGGCTTGTATGAAGAA  
AGCCATGGCATTGTGGCTAATTCCATGTATGATGCAGTCACAAAGAAACACTTTTCTGACTCTAATGACAAGGAT  
CCTTTTTGGTGGAAATGAGGCAGTACCTATTTGGGTGACCAATCAGCTTCAGGAAAACAGATCAAGTGCTGCTGCT  
ATGTGGCCTGGTACTGATGTACCCATTACAGTACCATCTCTCCTATTTTATGAATTACAACCTCCTCAGTGTC  
TTTGAGGAAAGACTAAATAATATTACTATGTGGCTAAACAATTCGAACCCACCAGTCACCTTTGCAACACTATAT  
TGGGAAGAACCAGATGCAAGTGGCCACAAATACGGACCTGAAGATAAAGAAAACATGAGCAGAGTGTGAAAAAA  
ATAGATGATCTTATCGGTGACTTAGTCCAAAGACTCAAGATGTTAGGGCTATGGGAAAATCTTAATGTGATCATT  
ACAAGTGATCATGGGATGACCCAGTGTCTCAGGACAGACTGATAAACCTGGATTCTGCATCGATCATTATAC  
TACACTCTTATAGATTTGAGCCAGTTGCTGCAATACTTCCCAAAATAAATAGAACAGAGGTTTATAACAACTG  
AAAACTGTAGCCCTCATATGAATGTTTATCTCAAAGAAGACATTCCTAACAGATTTTATTACCAACATAATGAT  
CGAATTCAGCCCATTATTTTGGTTGCCGATGAAGGCTGGACAATTGTGCTAAATGAATCATCACAAAAATTAGGT  
GACCATGGTTATGATAATTCTTTGCCTAGTATGCATCCATTCTAGCTGCCACGGACCTGCATTTACAAAGGC  
TACAAGCATAGCACAAATTAACATTGTGGATATTTATCCAATGATGTGCCACATCCTGGGATTAACCACATCCC  
AATAATGGGACCTTTGGTCATACTAAGTGCTTGTAGTTGACCAGTGGTGCATTAATCTCCAGAAGCCATCGCG  
ATTGTTATCGGTTCACTCTTGGTGTTAACCATGCTAACATGCCTCATAATAATCATGCAGAATAGACTTTCTGTA  
CCTCGTCCATTTTCTCGACTTCAGCTACAAGAAGATGATGATGATCCTTTAATTGGGTGACATGTGCTAGGGCTT  
ATACAAAGTGCTTTTGATTAATCACAAAATAAGAATACATCCAAAGAATAGTGTGTAAGTATGAAAAAGAATA  
CTTTGAAAAGACAAAGAAGCTTAGACTAAGCATGTTAAAAATTATTACTTTGTTTTCTTGTGTTTTGTTTCGGTGCA  
TTTGCTAATAAGATAACGCTGACCATAGTAAAAATTGTTAGTAAATCATTAGGTAACATCTTGTGGTAGGAAATCA  
TTAGGTAACATCAATCCTAACTAGAAATACTAAAAATGGCTTTTGAGAAAAATACCTCCTCTGCTTGTATTTTGC  
GATGAAGATGTGATACATCTTTAAATGAAAATATACCAAAATTTAGTAGGCATGTTTTTCTAATAAATTTATATA  
TTTGTAAGAAAACAACAGAAATCTTTATGCAATTTGTGAATTTTGTATATTAGGGAGGAAAAGCTTCCTATATT  
TTTATATTTACCTTTAATTAGTTTGTATCTCAAGTACCCCTTGAGGTAGGAAATGCTCTGTGATGGTAAATAAA  
ATTGGAGCAGACAGAAAAGATATAGCAATGAAGAAATATTTTAAAGGAAACCTATTTGAAAAAAAAGCAAAGAC  
CATTTGATAAAAAGCCTGAGTTGTACCATTTATGTCTTAAGCTGTTAGTCTTAAAGATTATTGTTAAAAAATTCAG  
AAGAAAAGAGAGACAAGTGCTCTTCTCTCTATCTATGCTTAATGCCTTTATGTAAGTTACTTAGTTGTTTGCCTG  
TGCTGTGCAAGTGTGTTTGTGTGTGGTTGTGTGGACATTATGTGATTTACTATATAAGGAGGTCAGAGATGGAC  
TGTGGCCAGGCTTCCACATTCTGAAGCACACAGATCTCAGGAAAGGTTATTTTGCACCTTCATATTTGTTTACT  
TTCTCCTAACTCACAGTTAAATCATAACTTAATTCATTAACCTTTTATCATTTAACTCTCTCATGTTTGTGT  
AACCTGAGGTATCCAAATGCTACAGAAAAATTTATGACCCAAATACAAATCTCAATTTGACTGGGACAGAATGAG  
GAATGGAGATTTTGTATTTATCTTTGGGACTTTATGCCTTACTTTTATAGGCTATAGAATAGTTAAGAAATTTTA  
AACAAATTTAGTATCTTTTGGTCTTTACACCATTCATATGTTAAGTGGCAGAATAGCCTTAGTGCTACCTCCA  
CTTTTTTCTCCAGTATTTGCATCACAGAAATAATCCCTCTGTTTAAACATGTTTGTTCAGAGCCAAGGGTTTATT  
GTGAAGAACTGTCATCCTGCCTTTGCTAGCTGGTACCTTCTAGTAATCAAATTAATATGAAGAACTAGGTTGT  
GACAGACTAGATTATATTTAGTAGGGGAAAAATTTGGGCTCAAGAACCATTATCAGTACGTGAGACAAGCAGTTA  
ATAGTATGATCTTTAAAGTTTGAACAATATAAAATAAACTTGGTAACTGTTTACAAATATAAAAGTATAATAAA  
TATGCAGCCCAGTTAAATATTGATTATCTGTGATGGTAAAGAACAACAGTGGTGCCAGTCATCAACATACAGTG  
CGTCTATTGAGTCAGTGCTAATTTCTTGAGCCTGGTATTTGCTGCCTATTGTATTTGTGGTTGTTGAGAGGCAT  
TTTCAAACCTGTATAAATAATCCATGCTGTTGGTCAATAAGTTAACTGTATTAAGAACAGTAAAAATAAATAAAAA  
CCAATAGTACTAATTTTGTCTTTAAAAAATTTCTAATTTTTTTCACATAAAACAATTATCCTAAAGGTTAATAGT  
TGATCGAAACAGAATAATAGAAAAATTCTACTTTAATTTCCATTAAAAAGCAAATAGCATTGACACATTTAAAGC  
TTTTCATTTAAAGTAGTGGATGTTTTTGAAGTATCTAAAAATAGTAGCAGAATATTTTATACTTGGTCCCTTGCAAT  
GGTGTGAGTTTTAATGATTGCATTATCGTGATTGGTGGTTATGAGTTTCAGAAATCTATACTTGGCATCCAACTC  
ATGAGTGGATTTTATATAGGATGGAACAGGAAGGTATGTCCTGTGAGTATCTTAACCTTTCAACAAGACATTTA  
CCTATTTGTCTTTCTTACGTTCTCAAAATATTAACCTCGAATTGTAAATTAAGCAAAAATTTAAAAAGTATATGT

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**FIGURE 851B**

TGATGGGACAAGAAGAATAGTATTTATTTAATAAAACATATATTATATTGAACTATGTGTTAATTCATTTGTATC  
TTTTAAAAAATTATCACTGTAAAGCCATTGACTCCTTTAGTACACTGAGAAAAATCTTATAGTAAAACTAGCCT  
TTCACATTAAGGTTTTGGTGTGTATTTTGTTAAATAACTAACATGCTGCTCTATTTTCTGGGTGTAGAAAGTATT  
TGGCTCTAGGAAACATTTACTTGTTTGTTGAAAAACAATACCCCAAGGTAATAGGAAAAGTTTGAGTTAAGTGT  
TAATTCAGTCAGTGAATTCAGAATAAGTACATTCATGTATAACATAGGGACAGTTCTGCTGCTGTTATTTATATG  
CAATTCCTTCTGGTAAATAGCAATAGAATAAAACATATTTCAATGTTTGTGTATAGGTTTTATATTATTATTCCAC  
TAGGAATGGCATAAGAATTTATAGATAAAATTCCTTGTAACATTAAAGGATTAAAATGTTTTTACATTGTTTTTGGG  
TGTCTCCTTCTTGTGCCCATATCTGATAAGCTTTATGGATTATTGCATTTAATTCCTTTTATTTGGAGGGTTT  
CTTCCTTGTTAACATATAAAGTTATAAATGAAGGACAAGGAGGAGATGGAAAATGTGTATTTATTGTTAATTCTT  
AAAATAGTGTGTAAATAAAATAACATCAGTGTGCTTT

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**FIGURE 852**

MKLLVILLFSGELITGFRSDSSSSLPPKLLLVSF DGFRADYLNKNEYFPHLQNF IKEGVLVEHVKNVFI TKTFPNHY  
SIVTGLYEESHGIVANS MYDAVTKKHFS DSNDKDPFWWNEAVP IWVTNQLQENRSSAAAMWPGTDVPIHDTISSY  
FMNYNSSVSFEERLNNITMWLNNSNPPVTFATLYWEEPDASGHKYGPEDKENMSRVLKKIDDLIGDLVQRLKMLG  
LWENLNVIIITS DHGMTQCSQDRLINLDSCIDHSYYTLIDLSPVAAILPKINRTEVYNKLKNCSPHNMVYLKEDIP  
NRFYYQHNDRIQPIILVADEGWTIVLNESSQKLGDHGYDNSLP SMHPFLAAHGPAFHKGYKHSTINIVDIYPMC  
HILGLKPHPNNGTFGHTKCLLDQWCINLPEAIAIVIGSLLVLTMLTCLIIIMQNRLSVPRPFSRLQLQEDDDDP  
LIG



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**FIGURE 853**

GAGATGGGTGCCCCATCCGCACACTGTCCTTTGGCCACCGGACATCATGCCTCCCAAGAAGGATGTTCCCGTGA  
AGAAACCAGCAGGGCCCTCCATCTCCAAACCTGCTGCTAAGCCAGCAGCAGCAGGGGCTCCTCCAGCCAAGACCA  
AAGCTGAGCCAGCTGTCCCCCAGGCCCTCAGAAAACCCAGGAGCCTCCAGTCGATCTCTCCAAAGTGGTGATCG  
AGTTTAAACAAGGACCAGCTGGAGGAGTTCAAGGAGGCCTTCGAGCTGTTTGACCGAGTGGGGGATGGCAAGATCC  
TGTACAGCCAGTGTGGGGACGTGATGAGGGCCCTGGGGCCAGAACCCACCAACGCCGAGGTGCTCAAGGTCCTGG  
GGAACCCCAAGAGTGATGAGCTGAAGTCGCGGCGTGTGGACTTTGAGACTTTCCTGCCCATGCTCCAGGCAGTGG  
CCAAGAACCGAGGCCAAGGCACATATGAGGACTACTTGAGGGGTTTCGTGTGTTTGACAAGGAGGGGAACGGCA  
AAGTCATGGGAGCAGAGCTCAGACATGTTCTCACCACCTTGGAGAGAAGATGACTGAGGAGGAGGTGGAGACCG  
TTCTGGCAGGACACGAGGACAGCAACGGCTGCATCAACTACGAGGCCTTCTTGAAACACATCCTAAGCGTCTGAG  
TGCTGCAGATCCAGTGGGGTCCGGACACTGGGCCCCGCAGGCGAAAGCACGTTCCAGCCACCAGGAGGCCACCTA  
TTGTTTCAAAATAAAGACTGGGTTTCCTC

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**FIGURE 854**

MPPKKDVPVKKPAGPSISKPAAKPAAAGAPPAKTKAEPVPQAPQKTQEPPVDLSKVVIEFNKDQLEEFKEAFEL  
FDRVGDGKILYSQCGDVMRALGQNPTNAEVLKVLGNPKSDELKSRRVDFETFLPMLQAVAKNRGQGTIEDYLEGF  
RVFDKEGNGKVMGAELRHVLTTLGEKMTEEEVETVLAGHEDSNGCINYEAFLEKHLISV

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**FIGURE 855**

ACTTCCCCCTTCCTGTACAGGGCAGGTTGTGCAGCTGGAGGCAGAGCAGTCCTCTCTGGGGAGCCTGAAGCAAACA  
TGGATCAAGAAACTGTAGGCAATGTTGTCCTGTTGGCCATCGTCACCCTCATCAGCGTGGTCCAGAATGGATTCT  
TTGCCCCATAAAGTGGAGCACGAAAGCAGGACCCAGAATGGGAGGAGCTTCCAGAGGACCGGAACACTTGCCTTTG  
AGCGGGTCTACACTGCCAACCAGAACTGTGTAGATGCGTACCCCACTTTCCTCGCTGTGCTCTGGTCTGCGGGGC  
TACTTTGCAGCCAAGTTCCTGCTGCGTTTGCTGGACTGATGTACTTGTGTTGTGAGGCAAAAGTACTTTGTGCGGTT  
ACCTAGGAGAGAGAACGCAGAGCACCCCTGGCTACATATTTGGGAAACGCATCATACTCTTCCTGTTCCCTCATGT  
CCGTTGCTGGCATATTCAACTATTACCTCATCTTCTTTTTCGGAAGTGACTTTGAAAACACTACATAAAGACGATCT  
CCACCACCATCTCCCCTCTACTTCTCATTCCCTAACTCTCTGCTGAATATGGGGTTGGTGTTCATCTAATCAA  
TACCTACAAGTCATCATAATTCAGCTCTTGAGAGCATTCTGCTCTTCTTTAGATGGCTGTAAATCTATTGGCCAT  
CTGGGCTTCACAGCTTGAGTTAACCTTGCTTTTCCGGGAACAAAATGATGTCATGTCAGCTCCGCCCCCTGAACA  
TGACCGTGGCCCCAAATTTGCTATTCCCATGCATTTTGTGTTTCTTCACTTATCCTGTTCTCTGAAGATGTTT  
TGTGACCAGGTTTGTGTTTTCTTAAATAAAAATGCAGAGACATGTTTT

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**FIGURE 856**

MDQETVGNVLLAIVTLISVVQNGFFAHKVEHESRTQNGRSFQRTGTLAFERVYTANQNCVDAYPTFLAVLWSAG  
LLCSQVPAAFAGLMYLFVRQKYFVGYLGERTQSTPGYIFGKRIILFLFLMSVAGIFNYYLIFFFGSDFENYIKTI  
STTISPLLLLIP

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**FIGURE 857**

GTCTCCCCACTGTCAGCACCTCTTCTGTGTGGTGAGTGGACCGCTTACCCCACTAGGTGAAG**ATG**TCAGCCCAG  
GAGAGCTGCCTCAGCCTCATCAAGTACTTCCTCTTCGTTTTCAACCTCTTCTTCTTCGTCCTCGGCAGCCTGATC  
TTCTGCTTCGGCATCTGGATCCTCATCGACAAGACCAGCTTCGTGTCCTTTGTGGGCTTGGCCTTCGTGCCTCTG  
CAGATCTGGTCCAAAGTCCTGGCCATCTCAGGAATCTTCACCATGGGCATCGCCCTCCTGGGTTGTGTGGGGGCC  
CTCAAGGAGCTCCGCTGCCTCCTGGGCCTGTATTTTGGGATGCTGCTGCTCCTGTTTGCCACACAGATCACCCCTG  
GGAATCCTCATCTCCACTCAGCGGGCCAGCTGGAGCGAAGCTTGCGGGACGTGCTAGAGAAAACCATCCAAAAG  
TACGGCACCAACCCCGAGGAGACCGCGGCCGAGGAGAGCTGGGACTATGTGCAGTTCAGCTGCGCTGCTGCGGC  
TGGCACTACCCGCAGGACTGGTTCCAAGTCCTCATCTGAGAGGTAACGGGTTCGGAGGCGCACCGCGTGCCCTGC  
TCCTGCTACAACCTTGTGCGCGACCAACGACTCCACAATCCTAGATAAGGTGATCTTGCCCCAGCTCAGCAGGCTT  
GGACACCTGGCGCGGTCCAGACACAGTGCAGACATCTGCGCTGTCCCTGCAGAGAGCCACATCTACCGCGAGGGC  
TGCGCGCAGGGCCTCCAGAAGTGGCTGCACAACAACCTTATTTCCATAGTGGGCATTTGCCTGGGCGTCGGCCTA  
CTCGAGCTCGGGTTCATGACGCTCTCGATATTCTGTGCAGAAACCTGGACCACGTCTACAACCGGCTCGCTCGA  
TACCGT**TAG**GCCCCGCCCTCCCCAAAGTCCCGCCCCGCCCCCGTCACGTGCGCTGGGCACTTCCCTGCTGCCTGT  
AAATATTTGTTTAATCCCCAGTTGCGCTGGAGCCCTCCGCCTTCACATTCCCCTGGGGACCCACGTGGCTGCGTG  
CCCCTGCTGCTGTACCTCTCCACGGGACCTGGGGCTTTCGTCCACAGCTTCCTGTCCCCATCTGTGCGCCTAC

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**FIGURE 858**

MSAQESCLSLIKYFLFVFNLFVFLGSLIFCFGIWILIDKTSFVSFVGLAFVPLQIWSKVLAI SGIFTMGIALLG  
CVGALKELRCLLGLYFGMLLLLFATQITLGILISTQRAQLERSLRDVVEKTIQKYGTNPEETA AEESWDYVQFQL  
RCCGWHYPQDWFQVLILRGNGSEAHVRPCSCYNLSATNDSTILDKVILPQLSRLGHLARSRHSADICAVPAESHI  
YREGCAQGLQKWLHNNLISIVGICLGVGLLELGFMTLSIFLCRNLDHVYNRLARYR

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**FIGURE 859**

AGCCGAATAGAGCCGGAGAGACCCGAGTATGACCGGAGAAGCCCAGGCCGGCCGGAAGAGGAGCCGAGCGCGGCC  
GGAAGGAACCGAGCCCGTCCGAAGGGAGCGGAGCGCAGCCTGGCCTGGGGCCCGGTGAGCCCGCGCC**ATG**GCGG  
CCGAGGCGACAGCTGTGGCCGGAAGCGGGGCTGTTGGCGGCTGCCTGGCCAAAGACGGCTTGACAGCAGTCTAAGT  
GCCCCGACACTACCCCAAAACGGCGGCGCGCCTCGTCTGCTGTCGCGTGACGCCGAGCGCCGAGCCTACCAATGGT  
GCCGGGAGTACTTGGGCGGGGCTGGCGCCGAGTGCAGCCCGAGGAGCTGAGGGTTTACCCCGTGAGCGGAGGCC  
TCAGCAACCTGCTCTTCCGCTGCTCGCTCCCGGACCACCTGCCCAGCGTTGGCGAGGAGCCCCGGGAGGTGCTTC  
TGCGGCTGTACGGAGCCATCTTGACAGGGCGTGGACTCCCTGGTGCTAGAAAGCGTGATGTTTCGCCATACTTGCGG  
AGCGGTGCTGGGGCCCCAGCTGTACGGAGTCTTCCAGAGGGCCGGCTGGAACAGTACATCCCAAGTCGGCCAT  
TGAAAACCTCAAGAGCTTCGAGAGCCAGTGTGTGTCAGCAGCCATTGCCACGAAGATGGCGCAATTTTCATGGCATGG  
AGATGCCTTTTACCAAGGAGCCCCACTGGCTGTTTGGGACCATGGAGCGGTACCTAAAACAGATCCAGGACCTGC  
CCCCAACTGGCCTCCCTGAGATGAACCTGCTGGAGATGTACAGCCTGAAGGATGAGATGGGCAACCTCAGGAAGT  
TACTAGAGTCTACCCCATCGCCAGTCGTCTTCTGCCACAATGACATCCAGGAAGGGAACATCTTGCTGCTCTCAG  
AGCCAGAAAATGCTGACAGCCTCATGCTGGTGGACTTCGAGTACAGCAGTTATAACTATAGGGGCTTTGACATTG  
GGAACCATTTTTGTGAGTGGGTTTATGATTATACTCACGAGGAATGGCCTTTCTACAAAGCAAGGCCACAGACT  
ACCCCACTCAAGAACAGCAGTTGCATTTTATTCGTCATTACCTGGCAGAGGCAAAGAAAGGTGAGACCCTCTCCC  
AAGAGGAGCAGAGAAAACCTGGAAGAAGATTGCTGGTAGAAGTCAGTCGGTATGCTCTGGCATCCCATTCTTCT  
GGGGTCTGTGGTCCATCCTCCAGGCATCCATGTCCACCATAGAATTTGGTTACTTGGACTATGCCCAGTCTCGGT  
TCCAGTTCTACTTCCAGCAGAAGGGGCAGCTGACCAGTGTCCACTCCTCATCCT**TG**ACTCCACCCTCCCACTCCTT  
GGATTTCTCCTGGAGCCTCCAGGGCAGGACCTTGAGGGGAGGAACAACGAGCAGAAGGCCCTGGCGACTGGGCTG  
AGCCCCCAAGTGAAACTGAGGTTTCAAGAGACCGGCCTGTTCTGAGTTTGAGTAGGTCCCCATGGCTGGCAGGCC  
AGAGCCCCGTGCTGTGTATGTAACACAATAAACAAGCTTC

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**FIGURE 860**

MAAEATAVAGSGAVGGCLAKDGLQQSKCPDTTPKRRRASSLSRDAERRAYQWCREYLGGAWRRVQPEELRVYPVS  
GGLSNLLFRCSLPDHLPSVGEEPREVLLRLYGAILQGVDSLVLSEVMFAILAERSLGPQLYGVFPEGRLEQYIPS  
RPLKTQELREPVLSAAIATKMAQFHGMEMPFTKEPHWLFGTMERYLKQIQDLPPTGLPEMNLLEMYSKDEMGNL  
RKLLESTPSPVVFCHNDIQEGNILLSEPENADSLMLVDFEYSSYNYRGFDIGNHFCEWVYDYTHEEWPFYKARP  
TDYPTQEQQLHFIRHYLAEAKKGETLSQEEQRKLEEDLLVEVSRYALASHFFWGLWSILQASMSTIEFGYLDYAQ  
SRFQFYFQQKGQLTSVHSSS



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**FIGURE 861**

CCGGCTCGGAGTGTGATCTAAGCAGGTGCGGTACCTTCCTCAGGTGACTCCGGCCACAGCCCATTGTCCGCGGCC  
ACCGGCGGAGTTTAGCCGCAGACCTCGAAGCGCCCCGGGGTCTTCCCGAACGGCAGCGGGCTGCGGCGGGTCC**AT**  
**CG**GAGAAAGGGCCCTGTGCGGGCACCGGCGGAGAAAGCCGCGGGGCGCCAGGTGCAGCAATGGGTTCCCCGAGCGGGA  
TCCGCCGCGGCCCGGGGCCAGCAGGCCGGCGGAGAAAGCCCCGCGGGCCGAGGCCAAGAGCGCGCAGCCCCGCGGA  
CGGCTGGAAGGGCGAGCGGGCCCCGAGCGAGGAGGATAACGAGCTGAACCTCCCTAACCTGGCAGCCGCCCTACTC  
GTCCATCCTGAGCTCGCTGGGCGAGAACCCCCAGCGGCAAGGGCTGCTCAAGACGCCCTGGAGGGCGGGCTCGGC  
CATGCAGTTCTTCACCAAGGGCTACCAGGAGACCATCTCAGATGTCTAAACGATGCTATATTTGATGAAGATCA  
TGATGAGATGGTGATTGTGAAGGACATAGACATGTTTTCCATGTGTGAGCATCACCTGGTTCCATTTGTTGGAAA  
GGTCCATATTGGTTATCTTCTAACAAGCAAGTCCTTGCCCTCAGCAAACCTTGCGAGGATTGTAGAAATCTATAG  
TAGAAGACTACAAGTTCAGGAGCGCCTTACAAAACAAATTGCTGTAGCAATCAGGAAGCCTTGCGGCCTGCTGG  
AGTCGGGGTAGTGGTTGAAGCAACACACATGTGTATGGTAATGCGAGGTGTACAGAAAATGAACAGCAAACTGT  
GACCAGCACAAATGTTGGGTGTGTTCCGGGAGGATCCAAAGACTCGGGAAGAGTTCCTGACTCTCATTAGGAGCT**IG**  
**AG**CTTCATTCACTGTGTGTGCGTTGGTTGCCGATCGTACTGCCAGTAGCATTGTCTGTCTGTCCGGTCTTGTTTG  
TACATTCCATTTTCAATTGTTACAGATGTGAACCTTATTCCTTGCTACTAATTATATTTAAATTTATTTCTAGGA  
AGTCAAATAAATAATAAAGGGTTGAGCCTCTACTTCTTCTTGCCACCTTTTTTGTTGGAATATTAAGTGAAC  
TGCTAATAGTGAAGTATGTGCACAAAACCACTGCCAGATAACCAGAGGGGCTGGGAAGGGAGAAGAATTAGTG  
TATTTTTTTTCAAATAGTACAGTAATTTGCCTCATAAGCATAGGAGCATTGGGAATGAGAGGGAACGTGCCCCAGT  
ATACTGTTTTTTTTCTTCTCCAATAAAAGTGGTGTAGTGCCGAAAGTGCTAAAATATTTAGTGCGGTATTGCTC  
TGTGAATTCAAGTTCAACAGACTTCACTTTGGTCATGTTTATTAACCACCAGTGACATTTAAAAATATATTTTT  
AGCAGTCGTAATGTTAGTCACCAAGGGAAGGTGGTGGAAATGTCTATGTTTTTGATTTTACTGTGAGTTAAAAAGG  
CACATTTCTACCTTCTATTGTTTTTAAATTCAAGAATAGGGAATTAGTTCCTGGTGTGTTTACGAGTGATTCT  
CGTGTCACATACAGGGATTTAGACATTTAACTCTCTGTGCCTTGATAAGAATATCATTTAGAGTGATAGTACTT  
TTGCCTTTTTAAAAAAGCCATTATTTTATGAGACTTAGTACTCACACTGCAAATAACTAGTCAGCTCAGTTTTAA  
CTTTATAGGTTTATTGAGTTTTCTTTGTGTGATCCATGTAGATGCCTCAAAATGTTTCTTCTTCTTTTTTTTT  
AATCTTATAAGATATTTTTCTAAGTATTTCCAGAAAACATTTGAGAGTGCCCATCATTTTCAGGTCTGCAGAACCA  
TAGCTTCCACGCACCTGAACGAGCACAGAATGAACTGACGGTGGAAGACATTATGAGCTGTGTCCAACGTTTTAA  
CCAAAGCGTATCGTACCAACGATCTGTGAAAATGCACTGGAAGCTTCTGGTCCCGGTTTTCTTTGTGGTCTATGT  
GGGTCTTGTCTCATTGTAACTCCGTATAGATGGTATAGGTATTTTAACTCTGGAAGCTGTTGCCTTATTAATGA  
TTATCTTAAAAATTTCTCTCATTGGGGCAGCGTGGGCCAAATTAAACAAACAAAACCGCAACTCCTCCACAGAAA  
CACAAACACAGTTATTCCATGAAGTTTAGTATTTGGTTGACATAGTGCTCTTCAAATTCATCCCATTACCTAAA  
AGTAATAACTTTGATGCTTGCTTTAACTTTAGTCCCATCTCTGCCACTTTGATGCTATTTGGGTTATGATGGGGC  
AAGATGGCAGAGGTATTGGGTTTTTTTTGTTTTTTTCCATTCCTCTCTACTTCTGTTTCTTAGCTTTTTCTTTCTG  
GAGTTTAAGTACAGTGATGGTTGGCTTGAGTACCTTTTTAAATCTAGCCAGTATAAACATTAGCCTGCTTAATA  
TTTAGACATTTATAGGTAGAATTCTGAGCACTCAACTCATGTTTGGCATTTTAAAGTAAAAACAAGTGTGACTTC  
GAGGACCAAAGAAATTGTCAGCTATACATTTATCTTTATGAACTCATTTATATTCTTTTTAATGACTCGTTGTT  
CTAACATTTCTTAGAAGTGTCTTATAAAGGTCTAATGTATCCACAGGCTGTTGTCTTATTAGTAAATGCAAAGT  
AATGACTTTGCTGTGTTTACTCTAGTCTTTAGTACTTCAAAATTACCTTTTCATATCCATGATCTTGAGTCCATT  
TGGGGGATTTTTAAGAATTTGATGTATTTCAATACACTGTTCAAAATTAAATTGTTTAAATTTTATGTATGAGTAT  
GTATGTTCTGAAGTTGGTCCTATTTAAATTATTAACTATTGTAACCTTAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 862**

MEKGPVRAPAEKPRGARC SNGFPERDPPRPGPSRPAEKPPRPEAKSAQPADGWKGERPRSEEDNELNLPNLAAAY  
SSILSSLGENPQRQGLLKTPWRAASAMQFFTKGYQETISDVLNDAIFDEDHDEMVIKIDMFMSCEHHLVPFVG  
KVHIGYLPNKQVLGLSKLARIVEIYSRRLQVQERLTKQIAVAITEALRPAGVGVVVEATHMCMVMRGVQKMNSKT  
VTSTMLGVFREDPKTREEFLTLIRS

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**FIGURE 863**

GCGCGGGCGGCTGGGGA**ATG**GCTGCTGCCATGGTGCCGGGGCGCAGCGAGAGCTGGGAGCGCGGGGAGCCTGGCC  
GCCCCGCCCTGTACTTCTGCGGGAGCATTGCGGGCGGACGCGAGGACAGGACGCTGTACGAGCGGATCGTGTCTC  
GGCTGCGGGCGATTGCGGGACAGTGCTCACCGAGCACGTGGCGGGCCGCCGAGCTGGGCGCGCGCGGGGAAGAGGCTG  
CTGGGGGTGACAGGCTCATCCATGAGCAGGACCTGGAGTGGCTGCAGCAGGCGGACGTGGTCGTGGCAGAAGTGA  
CACAGCCATCCTTGGGTGTAGGCTATGAGCTGGGCCGGGGCCGTGGCCTTTAACAAGCGGATCCTGTGCCTGTTCC  
GCCCGCAGTCTGGCCGCGTGCTTTGCGCCATGATCCGGGGAGCAGCAGATGGCTCTCGGTTCCAGGTGTGGGACT  
ATGAGGAGGGAGAGGTGGAGGCCCTGCTGGATCGATACTTCGAGGCTGATCCTCCAGGGCAGGTGGCTGCCTCCC  
CTGACCCAACCACT**TGA**CTTAATCTCACTTTCTTAAATTCTTCTATTCTCAGACACTGCTCTAGTACCATTCCCT  
CCTCTTAGCCCCAGGAGCAAATTAAAAGGTACAGTTAAATCCT

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**FIGURE 864**

MAAAMVPGRSESWERGEPPGRPALYFCGSIRGGREDRTLYERIVSRLRRFGTVLTEHVAAAELGARGEAAAGDRL  
IHEQDLEWLQQADVVAEVTQPSLGVGyelGRAVAFNKRI LCLFRPQSGRVLSAMIRGAADGSRFQVWDYEEGEV  
EALLDRYFEADPPGQVAASPDPTT

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**FIGURE 865**

CGCAGGGGTCCCCGGCCGCCGCGATGCAGAAATACGAGAAACTGGAAAAGATTGGGGAAGGCACCTACGGAAC  
GTGTTCAAGGCCAAAAACCGGGAGACTCATGAGATCGTGGCTCTGAAACGGGTGAGGCTGGATGACGATGATGAG  
GGTGTGCCGAGTTCCGCCCTCCGGGAGATCTGCCTACTCAAGGAGCTGAAGCACAGAACATCGTCAGGCTTCAT  
GACGTCCTGCACAGCGACAAGAAGCTGACTTTGGTTTTTGAATTCTGTGACCAGGACCTGAAGAAGTATTTTGAC  
AGTTGCAATGGTGACCTCGATCCTGAGATTGTAAAGTCATTCCCTCTTCCAGCTACTAAAAGGGCTGGGATTCTGT  
CATAGCCGCAATGTGCTACACAGGGACCTGAAGCCCCAGAACCCTGCTAATAAACAGGAATGGGGAGCTGAAATTG  
GCTGATTTTGGCCTGGCTCGAGCCTTTGGGATTCCCGTCCGCTGTTACTCAGCTGAGGTGGTCACACTGTGGTAC  
CGCCACCGGATGTCCTCTTTGGGGCCAAGCTGTACTCCACGTCCATCGACATGTGGTCAGCCGGCTGCATCTTT  
GCAGAGCTGGCCAATGCTGGGCGGCCTCTTTTTCCCGGCAATGATGTCGATGACCAGTTGAAGAGGATCTTCCGA  
CTGCTGGGGACGCCACCGAGGAGCAGTGGCCCTCTATGACCAAGCTGCCAGACTATAAGCCCTATCCGATGTAC  
CCGGCCACAACATCCCTGGTGAACGTCGTGCCCAAACCTCAATGCCACAGGGAGGGATCTGCTGCAGAACCTTCTG  
AAGTGTAACCCTGTCCAGCGTATCTCAGCAGAAGAGGCCCTGCAGCACCCCTACTTCTCCGACTTCTGTCCGCCC  
TAGGCCCCCGGGACCCCGCCTCCAGGCTGGGCCTGGCCTATTTAAGCCCCCTCTTGAGAGGGTGAGACAGTGGG  
GTGCCCTGG

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**FIGURE 866**

MQKYEKLEKIGEGTYGTVFKAKNRETHEIVALKRVRLLLLDEGVPSSALREICLLKELKHKNIVRLHDVLHSDKK  
LTLVFEFCDQDLKKYFDSCNGDLDPEIVKSFLFQLLKGLGFCHSRNVLHRDLKPQNLLINRNGELKLADFGGLARA  
FGIPVRCYSAEVVTLWYRPPDVLFGAKLYSTSIDMWSAGCIFAELANAGRPLFPGNVDVDDQLKRIFRLLGTPTEE  
QWPSMTKLDPDYKPYPMPATTSLVNVVPKLNATGRDLLQNLLKCNPVQRISAEELQHPYFSDFCPP

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**FIGURE 867A**

TCTTTAGAGCAAAAGGTGAATCAAAGGAGAGTCCCAGAAAACCTGTGACTGTTGAAGAAAATTCATCTGTGAATT  
TTTATATTCAAGGAGTCAGTATTTATATTTCATCTTTTAAACTGGGAAGATTTATATTTTACTTTAAAACTTCTTG  
ATAATAATTTACAAATGAATGGACACAGTGATGAAGAAAGTGTTAGAAACAGTAGTGGAGAATCAAGCCAGTCGGA  
TGATGATTCTGGGTTCAGCTTCAGGCTCTGGATCTGGTTTCGAGTTCTGGAAGCAGTAGTGATGGAAGCAGTAGCCA  
GTCAGGTAGCAGTGACTCTGACTCCGGATCTGAATCAGGCAGTCAGTCAGAGTCTGAGTCAGACACTTCCCGAGA  
AAACAAAGTTCAAGCAAAACCACCGAAAAGTTGATGGAGCTGAGTTTTGGAAATCTAGTCCTAGTATTCTGGCCGT  
TCAGAGATCTGCAATCCTCAAGAAGCAGCAACAGCAGCAGCAGCAACAACAACATCAAGCCTCATCTAATAGCGG  
ATCAGAAGAGGATTCCCTCTAGCAGTGAAGATTCCGATGACTCATCAAGTGAGGTCAAAGGAAAAAGCATAAAGA  
TGAAGATTGGCAAATGTCTGGGTTCAGGATCTCCATCTCAGTCTGGTTTCAGATTTCAGAATCTGAAGAAGAGAGAGA  
GAAAAGCAGTTGTGATGAAACAGAATCTGATTATGAGCCAAAAACAAAGTCAAAGCAGAAAACCTCAAAATAG  
ATCTAAGTCAAAAAATGGAAGAAGATTCTTGGACAAAAAAGAGACAGATTGATTTCATCTGAGGAGGATGATGA  
TGAAGAAGATTATGATAATGATAAAGAAGTTCTCGTCGCCAAGCAACTGTTAATGTTAGCTATAAGGAGGATGA  
AGAAATGAAAACAGATTCTGATGACCTACTGGAAGTCTGTGGAGAGGATGTTCCCTCAACCTGAGGAAGAGGAATT  
TGAAACCATAGAAAAGATTTATGGATTGTCGGATTGGGAGAAAAGGAGCTACTGGTGCTACTACAACCATCTATGC  
AGTTGAAGCAGATGGTGACCCAAATGCAGGCTTTGAAAAAACAAAGAACCAGGAGAGATTTCAGTATTTAATTAA  
ATGGAAGGATGGTCCCATATCCACAACACTTGGGAGACAGAAGAAACCCTCAAGCAGCAGAATGTTAGAGGAAT  
GAAAAAATTGGATAATTATAAGAAAAAGATCAGGAAACAAAAAGATGGTTGAAAAATGCCTCTCCAGAAGATGT  
GGAATATTATAATTGCCAGCAAGAACCTTACAGATGATCTACATAAACAGTATCAAATAGTGGACGTATAATTGC  
TCATTCCAATCAAAAGTCAGCAGCTGGTTATCCTGATTATTACTGCAAATGGCAGGGCCTTCCATACTCAGAGTG  
CAGCTGGGAAGATGGAGCTCTCATTTCCAAAAAGTTTCAAGCATGCATTGATGAGTATTTTAGCAGGAACCAATC  
AAAAACCACTCCTTTTAAAGATTGCAAAGTATTAACAAAGGCCAAGTTTGTAGCCCTGAAGAAGCAGCCATC  
CTATATTGGAGGACATGAGGGCTTAGAATTAAGAGATTATCAACTGAATGGTTTAAATTGGCTTGCTCATTCTTG  
GTGCAAAGGAAATAGTTGCATACTCGCTGATGAAATGGGCCTTGGAAAAACAATACAGACGATCTCATTTCTGAA  
TTATTTGTTTCATGAACATCAATTATATGGACCTTTTTTATTGGTAGTACCGCTCTCCACTCTTACTTCTCGGCA  
AAGGGAAATTCAGACTTGGGCTTCTCAAATGAATGCTGTGGTTTATTTAGGTGACATTAACAGCAGAAACATGAT  
AAGAACTCATGAATGGACGCATCATCAGACCAAACGGTTAAAAATTTAATATATTGTTAACAACCTTATGAAATTTT  
ATTAAGATAAGGCATTCTTGGAGGTCTAAATTGGGCATTTATAGGTGTTGATGAAGCACACCGATTAAAGAA  
TGATGACTCCCTTCTGTATAAACTTTAATAGATTTTAAATCCAATCATCGTCTCCTTATCACTGGAACCTCCTCT  
ACAGAATTCCTCCTCAAAAGAGCTCTGGTCTTTGCTACATTTTATTATGCCAGAAAAGTTTTCTTCTCGGGAAGATTT  
TGAAGAAGAACATGGCAAAGGGAGAGAATATGGTTATGCAAGCCTTCACAAGGAGCTTGAGCCATTTCTGTTACG  
CCGAGTTAAGAAAGATGTGGAAAAATCTCTTCTGCCAAGGTTGAGCAGATTTTAAGAATGGAAATGAGTGCTTT  
ACAGAAACAATATTACAAATGGATTTTAACTAGGAATTACAAAGCCCTCAGCAAAGGTTCCAAGGGCAGTACCTC  
AGGCTTTTTGAACATTATGATGGAGCTAAAGAAATGTTGTAACCATTGCTACCTCATTAACCACCAGATAATAA  
TGAATTCATATAATAAACAGGAGGCCTTACAACACTTAATTCGTAGTAGCGGAAAAATTGATTCTTCTTGACAAGCT  
ATTAATTCGCCTAAGAGAACGAGGCAATCGAGTTCTTATTTTTTACAAATGGTGCGGATGTTAGATATACTTGC  
AGAATATTTGAAATATCGTCAATTCCCTTTCAAAGATTAGATGGATCAATAAAAGGAGAACTGAGGAAACAAGC  
TCTAGATCATTTTAAATGCTGAGGGATCAGAGGATTTTGTCTTTTGTCTGTCCACAAGAGCTGGAGGTCTAGGGAT  
TAATTTAGCCTCTGCTGACACTGTTGTTATATTTGATTCCGATTGGAATCCACAGAATGATCTTCAGGCACAGGC  
TAGAGCCCATCGAATTGGCCAAAAGAAACAGGTGAATATTTATCGTCTAGTTACAAAGGGATCAGTTGAAGAAGA  
TATTCCTGAAAGGGCGAAAAAGAGATGGTTTTAGATCATCTTGTAATTCAAAGAATGGACACAACCTGGGAAGAC  
AGTACTACATACAGGTTCTGCCCCATCAAGTTCTACTCCTTTCAATAAAGAAGAGTTATCAGCCATTTTAAAGTT  
TGGTGCTGAAGAACTTTTTAAGGAACCTGAAGGAGAAGAACAAGAGCCCCAGGAAATGGATATAGATGAAATCTT  
GAAGAGAGCTGAAACTCATGAAATGAACCAGGTCCTTTAACTGTAGGAGATGAATTGCTTTCCAGTTCAAGGT  
TGCCAACTTCTCAAATATGGATGAGGATGACATTGAGTTGGAACCTGAAAGAAATTCAAAGAATTGGGAGGAAAT  
TATTCAGAAGATCAAAGAAGACGATTAGAAGAAGAAGAACAAAGGAACCTTGAAGAAATTTATATGCTCCC  
AAGAATGAGAAATTGTGCAAAACAGATTAGTTTCAATGGAAGTGAAGGGAGGCGCAGTAGAAGTAGGAGATACTC  
TGGATCTGATAGTGATTCCATCTCAGAAGGGGAAAAGGCCAAAGAAACGTGGAAGACCACGGACTATTCCTCGGGA  
GAATATTAAAGGATTTAGTGATGCAGAAATTAGGCGGTTTATCAAGAGCTATAAGAAATTTGGTGGTCTCTGGA

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**FIGURE 867B**

AAGATTAGATGCAATTGCTCGAGATGCTGAGTTAGTTGATAAGTCAGAAACAGACCTTAGACGACTGGGAGAATT  
GGTACATAATGGTTGCATTAAAGCATTAAAGGATAGTTCTTCAGGAACAGAACGAACAGGTGGTAGACTCGGAAA  
AGTGAAGGGTCCAACATTCCGAATATCAGGAGTACAGGTGAATGCCAACTAGTCATCTCCCATGAAGAAGAATT  
AATACCTTTGCACAAATCCATTCTTCTGATCCAGAAGAAAGAAAGCAGTATACTATCCCATGCCACACAAAAGGC  
AGCTCATTTTGATATAGACTGGGGCAAAGAAGATGATTCCAATTTGTTAATTGGCATCTATGAATATGGATATGG  
AAGCTGGGAAATGATTAAAATGGATCCTGACCTCAGTCTAACACACAAGATTCTTCCAGATGATCCCGATAAAAA  
ACCACAAGCAAAACAGTTGCAGACCCGTGCAGACTACCTCATCAAATTACTTAGTAGAGATCTTGCAAAAAAAGA  
AGCTCTTTCTGGTGCGGGAAGTTCAAAGAGGAGAAAAGCAAGAGCTAAGAAGAATAAAGCAATGAAGTCTATAAA  
AGTGAAAGAGGAAATAAAGAGTGATTCTTCTCTCTGCTTCAGAGAAAGTCTGATGAAGATGATGATAAATTGAG  
TGAATCCAAGTCTGATGGTAGGGAAGATCCAAGAAATCTTCAGTGTCAGATGCTCCAGTTCATATCACGGCAAG  
TGGTGAACCAGTTCCCATTTCTGAAGAATCTGAAGAGCTGGATCAGAAGACATTCAGCATTGTAAAGAAAGAAT  
GAGGCCTGTAAAGCAGCTTTGAAACAACCTTGATAGGCCTGAGAAAGGCCTTTCAGAAAGAGAACAAC TAGAACA  
TACTAGACAATGTTTAAATAAAAAATTGGAGACCATATCACAGAATGTCTAAAAGAGTATACAAATCCTGAACAAAT  
TAAGCAATGGAGAAAAAACCTGTGGATTTTTGTATCTAAGTTTACTGAATTTGATGCAAGAAAATTACATAAATT  
ATATAAGCATGCTATTAAAAAACGGCAGGAGTCTCAGCAAAACAGTGATCAAAACAGCAACTTGAATCCTCACGT  
GATTAGAAATCCAGATGTGGAAAGATTAAAAGAGAATACAAATCACGATGATAGCAGCAGGGACAGTTATTCCTC  
TGATAGACACTTAACTCAGTACCATGATCATCATAAAGACCGACATCAGGGAGATTCTTACAAAAAAGTGATTC  
CAGGAAAAGACCCATTCTTCTTTTAGTAATGGTAAAGACCATCGTGATTGGGATCACTACAAGCAAGACAGCAG  
ATATTACAGTGACAGAGAGAAACACAGAAAACCTGGATGATCACAGGAGTAGAGATCACAGGTCAAATTTGGAAGG  
AAGTTTAAAGATAGATCTCATTCTGATCATCGTTCTCACTCAGATCATCGGTTACATTCAGACCACCGGTCAAG  
TTCTGAATATACGCACCATAAATCTTCCAGGGATTATAGGTATCACTCAGACTGGCAAATGGACCACAGAGCTTC  
CAGCAGTGGCCCTAGGTCACTACTAGATCAGAGATCTTATGGCTCCAGATCTCCATTTGAACATTCAGTTGAACA  
CAAAAGTACACCGGAGCATACCTGGAGTAGTCGGAACATAACAAAAACCTGATACTTCGTCTTTCTGGACTTTT  
CTTTTAGCCATATATCATAAACCAACACAGTAATTGCCTTACATGACTTGAAAGATATAAACAGATCTTCTATCA  
GTAGCAGTATTGTTACTTCTTCCAGGATGCAAGGTCTATTATCCCAACAGAAGAGAAAAATATTTTTATATTTAA  
GGATTATGCTGCACTGTACTACAAAATTGTAGTACTTTTTTTTTGTTTTCTTTTTTAAAGAAATGGAAAATGTTTA  
CTATTACAGGGACCTCAACACTGCCCTCCCATACAGGCTGGATAAACTGTTTTTAAAGTCAGTGATTTTAGACTG  
ACCTCCATTTAAATTATGTTTATATGAACCTTACTCTGACCTGTGATCATGTTTCAGGAAGGAATGAAAGAGA  
GTTCTTTCTTAATAAAGAAAAACACTCAAGGACTTTGTTCAATTTCAAAGCTACTTGTTTACATTGTACACTGCG  
ACCACCTTGCCGCTTTTCATCACAAGCTTGAATATTTAAATTCTGTACTTATATCTGTAAAATAGCCAGGAATTT  
CCTGTTTGTGATCTATTATGCCTTTTTTACAAAAAAATGGCTGTAAATTATTGTAAATATTAAAGGAACCTTTCCT  
TACAAAAA



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**FIGURE 868**

MNGHSDEESVRNSSGESSQSDDDSGSASGSGSGSSSGSSSDGSSSQSGSSSDSGSESGSQSESESDTSRENKVQ  
AKPPKVDGAEFWKSSPSILAVQRSAILKKQQQQQQQQHQASSNSGSEEDSSSSSESDSDSSSEVKKRKKHKDEDWQ  
MSGSGSPSQSGSDSESEEEEREKSSCDETESDYEPKNKVKS RKPQNRSKSKNGKKILGQKKRQIDSSEEDDDEEDY  
DNDKRSSRRQATVNVSYKEDEEMKTDSDDLLEVCGEDVPQPEEEEFETIERFMDCRIGRK GATGATTTIYAVEAD  
GDPNAGFEKNKEPGEIQYLIKWKGWSHIHNTWETEETLKQQNV RGMKKLDNYKKKDQETKRWLKNASPEDVEYYN  
CQQELTDDLHKQYQIVGRIIAHSNQKSAAGYPDYYCKWQGLPYSECSWEDGALISKKFQACIDEYFSRNQSKTTP  
FKDCKVLKQRPRFVALKKQPSYIGGHEGLELRDYQLNGLNWL AHSWCKGNSCILADEMGLGKTIQTISFLNYLFH  
EHQLYGPFLLVVPLSTLTWSQREIQTWASQMNNAV VYLG DINSRNMIRTHEWTHHQT KRLKFNILLTTYEILLKDK  
AFLGGLNWAFIGVDEAHRLKNDDSLLYKTLIDFKSNHRL LITGTPLQNSLKE LWSLLHFIMPEKFSSWEDFEEEH  
GKGREYGYASLHKELEPFLLRRVKKDVEKSLPAKVEQ IILMEMSALQKQYKWILTRNYKALSKGSKGSTSGFLN  
IMMELKKCCNHCYLIKPPDNNEFYNKQEALQHLIRSSGKLILLDKLLIRLRERGNRVLIFSQMVRMLDILA EYLK  
YRQFPFQRLDGSIKGELRKQALDHFNAEGSEDFCFLLS TRAGGLGINLASADTVVIFDSDWNPQNDLQAQARAHR  
IGQKKQVNIYRLVTGKSVEEDILERAKKKMVL DHLVIQRMDDTTGKTVLHTGSAPSSSTPFNKEELSAILKFGAEE  
LFKEPEGEEQEPQEMDIDEILKRAETHENEPGLTVGDELLSQFKVANFSNMDEDDIELEPERNSKNWEEIIPED  
QRRRLEEEERQKELEEIYMLPRMRNCAKQISFNGSEGRRSRSRRYSGSDSDSISEGKRPKKRGPRPTIPRENIKG  
FSDAEIRRFIKSYKKFGGPLERLDAIARDAELVDKSETDLRRLGELVHNGCIKALKDSSSGTERTGGR LGKVKGPF  
TFRISGVQVNAKLVISHEEELIPLHKSIPSDPEERKQYTTIPCHTKAAHFDIDWGKEDDSNLLIGIYEYGYGSWEM  
IKMDPDLSTLTHKILPDDPDKKPQAKQLQTRADYLIKLLSRDLAKKEALSGAGSSKRRKARAKKNKAMKSIKVKEE  
IKSDSSPLPSEKSDDEDDDKLSESKSDGRERSKKSSVSDAPVHITASGEPVPISEESEELDQKTF SICKERM RPVK  
AALKQLDRPEKGLSEREQLEHTRQCLIKIGDHITECLKEYTNPEQIKQWRKNLWIFVSKFTEFDARKLHKLYKHA  
IKKRQESQQNSDQNSNLNPHVIRNPDVERLKENTNHDDSSRDSYSSDRHLTQYHDHKKDRHQGDSYKKS DSRKRP  
YSSFNGKDHRDWDHYKQDSRYYS DREKHKRLDDHRSRDHRSNLEGLKDRSHSDHRSHSDHRLHSDHRSSEYT  
HHKSSRDYRYHSDWQMDHRASSSGPRSPLDQRSYGSRSPPFEHSVEHKSTPEHTWSSRKT

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**FIGURE 869**

CCGGAGCGGGGATCACCTTAACTTGACTGTGGTCCCCAGCCCTCCAAGAAATGCCCATAAACCAAGGAGGAGAG  
GGTAAAAAATAGAAGAATACATGGAATTGGGGAGAAGAATGGGAAAAAAGATGGGAGTGAATGCATAATGTCAGC  
ATTTTGTGCTTTTGGCTCAGCATTGATGGATGGAGGATTTTCATCCTGAAAACAGCCCTCCGTCGCCACCGA  
CCATGGAATAATTGTCTTCCACGAACTCTTCCCTGGTGCCAAAAAGGGTTTTATGTATATATTTGAGAGCTCCA  
CATCCCTGGATCTGAATCCTCCACTTCCCACTGGAACCATGCCCTCCAGTCCCGTTTCTCCCTCTAGGGGAT  
GGAGGCTGAGAGACCCCAGGAAGAAGAGGATGGTGAGCAGGGCCCCCTCAGGATGAGGAAGGCTGGCCCCCTCC  
AACTCCACCACTCGGCCTTGGCGATCTGCTCCTCCATCCCTCCTCCTCCAGGGACCCGCCACACAGCCCTGGG  
ACCCCGCTCGGCCTCCCTGCTCTCCCTGCAGACTGAACTCCTTCTGGACCTGGTGGCTGAAGCCCAGTCCCGCCG  
CCTGGAGGAGCAGAGGGCCACCTTCTACACCCCCAAAACCCCTCAAGCCTAGCCCTGCCCACTCCGTCCTCT  
CGAGGACAGAGAACAGCTTTACAGCACTATCCTCAGTCACCACTGCCAGCGGATGGAAGCCCAGCGGTCAGAGCC  
TCCCTCCCTCCAGGGGGGCAAGAGCTCCTGGAGTTGCTGCTGAGAGTTAGGGTGGGGTGAATGGAGGAGCA  
AAGGTCCCGGCCCCCACACACACCTGCTGAGACTTGAGCCCCAACCAGCCCTTCTTGCCACTGGTCTCAAAGC  
TGGGCAGCCCATTCATGCCCTCAACTCTTGCTTGGCAGGGGTACCAGAGACTGAAAGACACGGCACAAATCTCA  
ATATTCATCTCCACATCACCTTCCCTGGGAAGTGGACAGGGTGAAAGTCTCAAACCTCTGGGAACAGGCGAGAT  
GGAACAGGGATTTAACTCCCCGCCCACAGGTCCATGGGAGCTTGAGGCAGTAAGGGGGATCCCAGGCACCCATCT  
CAAGGAGTGGCTGGGAGTCTTTTCCCTAACTTGTGGGGACACCACAGTTGTCAAGCTACTAGGCAGTAGGGTCT  
GAGGGCTCAGGCCTCCACCTGAGAGGTTATAACCTGAGAGACAGCTCTACCCTTCTCCAGTAAGAAGGGAAGG  
TGGGTGGGCACCTGAGAGATTAAGACTATTCTCCAGTCCCACTACCAGCACCCCGATCCCTGAGACTGAGGGG  
TTTACGGGCTGTGAATGGACCTTCAGCCCTGCCACCCTCCCTCCCCACTGCTGCTGAGTCTGTCTGATGTTTTG  
GTTGTGTGAATAAATATAATTCCCTCTGGAAAAAAAAAAAAAAAAAAAA

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**FIGURE 870**

MEAERPQEEEDGEQGPPQDEEGWPPPNSTTRPWRSAPPSPPPPGTRHTALGPRSASLLSLQTELLLDLVAEAQSR  
RLEEQRATFYTPQNPSSLAPAPLRPLEDREQLYSTILSHQCQRMEAQRSEPPLPPGGQELLELLLRVQGGGRMEE  
QRSRPPTHCT

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**FIGURE 871**

CGGGCACTCACCGTGTGTAGTTGGCATCTCCGCGCGTCCGGACACCCGATCCCAGCATCCCTGCCTGCAGGACTG  
TTCGTGTTTACAGCTCGCGTCCTGCAGCTGTCCGAGGTGCTCCAGTTGGAGGCTGAGGTTCCCGGGCTCTGTCGCTG  
AGTGGGCGGCGGCACCGGCGGAGATGCCTGGGAAGAAGGCGCGCAAGAACGCTCAACCGAGCCCCGCGCGGGCTC  
CAGCAGAGCTGGAAGTCGAGTGTGCTACTCAACTCAGGAGATTGGAGACAACTGAACTTCCGGCAGAAACTTC  
TGAATCTGATATCCAAACTCTTCTGCTCAGGAACCTTGACTGCATCAAAAACCTTGCATGAGGGGACTCCTTCAAAA  
GAGTTTTCTCAGGAGGTGCACGTTTCATCAATTTGAAGAAAGACTGCATTGTAATTGAGAGGAATGTGAAGGTGC  
ATTCATGGGTGCCCTTGGAAACGGAAGATGGAATACATCAAAGTGAATTTCTGTTCAAGTTTTCCAGATTATCA  
TTCTTTGGGATGAGAGAACATTATAAAACCACCTTTGTTTATTTTAAAGCAAGAATGGAAGACCCCTGAAAATAAA  
GAAGTAATTATTGACACATTTCTTTTTTACTTAGAGAATCGTTCTAGTGTTTTTGCCGAAGATTACCGCTGGCCT  
ACTGTGAAGGTAGATGACCTGTGATTAGACTGGGCGGCTGGGGAGAAACAGTTCAGTGCATTGTTGTTGTTGCTG  
TTTTTGGTGTGTGTGCTTTTCAGTGCCAACCTCAGCACATTGTATATGATTCCGTTTATACATATTACCTTGTATA  
ATGAAAAAAGTCAATCTGAGAACACTGAAATGTTATACTCAGTGTGATTCTTCGGTCACTACACAACGTAAAA  
TCATTTGTTTCTTTTGACTCAAATTGTATTGCTTCTGTTTCTGATGATCTTTTATTCAATGTGTTTCTGTTGGGCG  
TTACTAGAACTATGGAAACTGGAAAATAACTTTGAAAAAATTGGATAAAGTATAGGAGGGTTACTTGGGGCCA  
GTAAATCAGTAGACTGAACATTCAATATAATAAAAGAACATGGGGATTTTGTATAACCAGGGATAATAAAAAAGAA  
AAAGAAGTTAATTTTTAATTGATGTTTTTGAAGTCTAGTAGAACAAATATTCAGAAGTAACTTGATAAGATATGA  
ATGTTTCTAAAGAGTTTCTAAAGGTTGAAATGCTCCTTGTTCACATTAGTGTGCATCCTACAAAAAGTGATCTCT  
TAATGTAAATTAAGAATATTTTCATAATTGGAATATACTTTTCTTAAAAAAAAGGAACAGTTAGTTCTCATCTAG  
AATGAAAGTTCCATATATGCATTGGTGAATATATATGTATACACATACTTACATACTTATATGGGTATCTGTATA  
GATAATTTGTATTAGAGTATTATATAGCTTCTTAGTAGGGTCTCAAGTAAGTTTATTTTTTTATCTGGGCTATA  
TACAGTCCCTCAAATAAATAATGTCTTGATTTTATTTTCTCAGCAGGAATAATTTTATTTATTTTGCCTATTTATAATT  
AAAGTATTTTCTTTAGTTTGAAGTGTGTATTAAAGTTACATTTTGTAGTTACAAGAGTCTTATAACTACTTGAA  
TTTTTAGTTAAATGTCTTAATGTAGGTTGTAGTCACTTTAGATGGAAAATTACCTCACATCTGTTTTCTTCAGT  
ATTACTTAAGATTGTTTTATTTAGTGGTAGAGAGATTTTTTTTTTTCAGCCTAGAGGCAGCTATTTTACCATCTGGT  
ATTTATGGTCTAATTTGTATTTAAACATATGCACACATATAAAAGTTGATACTGTGGCAGTAACTATTAAAAAGT  
TTTCACTGTT

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**FIGURE 872**

MPGKKARKNAQPSPARAPAELEVECATQLRRFGDKLNFRQKLLNLISKLFCSGT

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**FIGURE 873**

GCTCCTCACAGGCGGGGTTGCTTCACCCACACCGTCATGTACTACGGCCACTACAGTAACGCCACGCTGAACCA  
GCCGTGTGGCAGCCCCCTGGATGGCAGCCAGTGCACACCCAGGGTGGGTGGCCTGCCCTACAACATGCCCCCTGGC  
CTACCTCTCCACTGTGGGCGTGAGCTTCTTTATCACCTGCATCACCTGGTGTACAGC**ATGG**CTCACTCTTTTCGG  
GGAGAGCTACCGGGTGGGCAGCACCTCTGGCATCCACGCCATCACCGTCTTCTGCTCCTGGGACTACAAGGTGAC  
GCAGAAGCGGGCCTCCCGCCTCCAGCAGGACAATATTTCGCACCCGGCTGAAGGAGCTGCTGGCCGAGTGGCAGCT  
GCGGCACAGCCCCAGGAGCGTGTGCGGGAGGCTGCGGCAGGCGGCTGTGCTGGGGCTTGTGTGGCTGCTGTGTCT  
GGGGACCGCGCTGGGCTGCGCCGTGGCCGTCCACGTCTTCTCGGAGTTTCATGATCCAGAGTCCAGAGGCTGCTGG  
CCAGGAGGCTGTGCTGCTGGTCCTGCCCTGGTGGTTGGCCCTCCTCAACCTGGGGGGCCCCCTACCTGTGCCGTGT  
CCTGGCCGCCCTGGAGCCGCATGACTCCCCGGTACTGGAGGTGTACGTGGCCATCTGCAGGAACCTCATCCTCAA  
GCTGGCCATCCTGGGGACACTGTGCTACCACTGGCTGGGCCCGCAGGGTGGGCGTCCCTGCAGGGCCAGTGTGGGA  
GGATTTTGTGGGCCAGGAGCTGTACCGGTTCTTGGTGATGGACTTCGTCTCATGTTGCTGGACACGCTTTTTCGG  
GGAAGTGGTGTGGAGGATTATCTCCGAGAAGAAGCTGAAGAGGAGGCGGAAGCCGGAGTTTGACATTGCCCGGAA  
TGTCTGGAGCTGATTTATGGGCAGACTCTGACCTGGCTGGGGGTGCTCTTCTCGCCCCCTCTCCCCGCCGTGCA  
GATCATCAAGCTGCTGCTCGTCTTCTATGTCAAGAAGACCAGCCTTCTGGCCAACTGCCAGGCGCCGCGCCGGCC  
CTGGCTGGCCTCACACATGAGCACCGTCTTCTCAGCTGCTCTGCTTCCCCGCCTTCTGGGCGCCGCTGTCTT  
CCTCTGCTACGCCGTCTGGCAGGTGAAGCCCTCGAGCACCTGCGGCCCTTCCGGACCCTGGACACCATGTACGA  
GGCCGGCAGGGTGTGGGTGCGCCACCTGGAGGCGGCAGGCCCCAGGGTCTCCTGGCTGCCCTGGGTGCACCGGTA  
CCTGATGGAAAAACACCTTCTTTGTCTTCTTGGTGTGAGCCCTGCTGCTGGCCGTGATCTACCTCAACATCCAGGT  
GGTGCAGGGGCCAGCGCAAGGTCACTGCTGCTCAAGGAGCAGATCAGCAATGAGGGTGAGGACAAAATCTTCTT  
AATCAACAAGCTTCACTCCATCTACGAGAGGAAGGAGAGGGAGGAGAGGAGCAGGGTTGGGACAACCGAGGAGGC  
TGCGGCACCCCTGCCCTGCTCACAGATGAACAGGATGCC**TAG**GGGGACGGCGATGGGCCTCACGGGCCCGCCCA  
GCACCCTGAGACCACACTGTTGCCCTCCAGTGACCCTGCTGGGACACCAGGACAAGGAAGACAGTTTTCGCTCTC  
GAAAGCCGCAGCTGCGCCTAGGCTGGAGCTGGAAGGGTGGGTGAATCCGGCTTGGGCATCCCCAATGAACTCTGC  
CCTGCCTGGGACTCTATTTATTCTGATTAAAGGGGTTTTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAA

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**FIGURE 874**

MAHSFGESYRVGSTSGIHAIITVFCSDYKVTQKRASRLQODNIRTRLKELLAEWQLRHSPRSVCGRLRQA AVLGL  
VWLLCLGTALGCAVAVHVFSEFMIQSPEAAGQEAVLLVPLVVGLLNLGAPYLCRVLA ALEPHDSPVLEVYVAIC  
RNLILKLAILGTL CYHHLGRRVGV LQGQCWEDFVGQELYRFLVMDFVLM LLDTLFGELVWRI ISEKKLRRRKPE  
FDIARNVLELIYGQTLTWLGVLFSPLLPAVQIIKLLLVFYVKKTSLLANCQAPRRPWLASHMSTVFLTLLCFPAF  
LGA AVFLCYAVWQVKPSSTCGPFRTLDTMYEAGRVVVRHLEAAGPRVSWLPWVHRYLMENTFFVFLVSALLLAVI  
YLN IQVVRGQRKVICLLKEQISNEGDKIFLINKLHSIYERKEREERSRVGTTEEA AAPPALLTDEQDA

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**FIGURE 875**

CGGCGCTGGGCTGAGGGGAGGGGTTGTCTTAAAAGTCTCTCCTTCCCCCTGTAGGGGCGGCCGGCGAGTCCCAGT  
GAGAGCGGAGGGTGCCAGAGGTAGGGGGCCGAGAAAACAAAGTTCCCGGGGCTTCCTCCGGGGCCGCGGTCCGGGGC  
TGC GCGTTTGACCGCCCCCTCCTCGCGAAGCAATGGCTTCCAAACTCCTGCGCGCGGTTCATCCTCGGGCCGCCC  
GGCTCGGGCAAGGGCACCGTGTGCCAGAGGATCGCCCAGAACTTTGGTCTCCAGCATCTCTCCAGCGGGCCACTTC  
TTGCGGGGAGAACATCAAGGCCAGCACCGAAGTTGGTGAGATGGCAAAGCAGTATATAGAGAAAAGTCTTTTGGTT  
CCAGACCATGTGATCACACGCCTAATGATGTCCGAGTTGGAGAACAGGCGTGGACAGCACTGGCTCCTTGATGGT  
TTTCTTAGGACATTAGGACAAGCCGAAGCCCTGGACAAAATCTGTGAAGTGGATCTAGTGATCAGTTTGAATATT  
CCATTTGAAACACTTAAAGATCGTCTCAGCCGCCGTTGGATTACCCCTCCTAGCGGAAGGGTATATAACCTGGAC  
TTCAATCCACCTCATGTACATGGTATTGATGACGTCCTGGTGAACCGTTAGTCCAGCAGGAGGATGATAAACC  
GAAGCAGTTGCTGCCAGGCTAAGACAGTACAAAGACGTGGCAAAGCCAGTCATTGAATTATACAAGAGCCGAGGA  
GTGCTCCACCAATTTTCCGGAACGGAGACGAACAAAATCTGGCCCTACGTTTACACACTTTTCTCAAACAAGATC  
ACACCTATTTCAGTCCAAAGAAGCATATTGACCCCTGCCCAATGGAAGAACCAGGAAGATGTGGTCATTCAATCAAT  
AGTGTGTGTAGTATTGGTGTGTGTCCAAATTAGAAGCTAGCTGAGGTAGCTTGCAGCATCTTTTCTAGTTGAAA  
TGGTGAAGTATAGGAAAACAAATGAGTAGAAAGAGTTTCATGAAGAGGCCCTCCTCTGCCTTTCAAAGGCTGGT  
CACCTACACATGTTTAAAGGTGTCTCTGCACATGTCTCAAGCCCATCACAAAGAAAGCAAGTACAGTGTGGATTCA  
AATGGTGTGTAACCTTCAGCTCCAGCTGGTTTTTTGACAGCTGTTGCTGTGGTAATATTTTTTGACATGTGATGGTGA  
TAGTCTCTGGTTCTCCCCATCCCCACAAAGGCTGTTGAACCACAGCACCAGGAAGCCTGAGAATGAATCCTGAGG  
GCTCTAGCCCAGGCTTTGTCCAGGCTTTCTGGTGTGTGCCCTCCTGGTAACAGTGAAATTGAAGCTACTTACTC  
ATAGTGGTTGTTTCTCTGGTCTTGAGTGACTGTGTCCACAGTTCATTTTTTTCCGGTAGGAATAACTCCTTTTCT  
ACATCCACGCTCCATAGAGTCTCTCCTTTTTCAGACATCCTGGGATGAAAGAATTTGGCTTTTTTTTTTCTTTTTT  
TTTTGGACATCTGTTTTCACTCTTAGGCTTTTAAACAATAGTTATTGCTTTTATCCCTCTCAGATTCTAATAACT  
GAGAGCGATGGGGCTATATTGAATCTCTGTATGCACTGAGAACTGAGCTATGAAGAGAATCTTATTAAACTGCTG  
GTCTGACTTTATGGATTGACACTGTTTCTTTTATTGTGAAAAAAAAAAAAAAAAA



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**FIGURE 876**

MASKLLRAVILGPPGSGKGTVCQRIQNFGQLHLSSGHFLRENKASTEVGEMAKQYIEKSLLVPDHVITRLMMS  
ELENRRGQHWLLDGFPRTLGQAEALDKICEVDLVISLNIPFETLKDRLSRRWIHPPSGRVYNLDFNPPHVHGIDD  
VTGEPLVQQEDDKPEAVAARLRQYKDVAKPVIELYKSRGVLHQFSGTETNKIWPYVYTLFSNKITPIQSKEAY

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**FIGURE 877**

GCGCCGAGCCGGTTTCCCCGCCGGTGTCCGAGAGGCGCCCCGGCCCCGGCCCCGGCCCCGCGCCCTCCGCCC  
CCGCCTCCCCGGGCCGGCGGGTGGGCGAGCTCGCGGGCCCCGGCCCCCAGCCCCAGCCCCGCGGGCCCCG  
CCCCCGTCGAGTGCATGAGGTTGACGCTACTTTGTTGCACCTGGAGGGAAGAACGTATGGGAGAGGAAGGAAGC  
GAGTTGCCCCGTGTGTGCAAGCTGCGGCCAGAGGATCTATGATGGCCAGTACCTCCAGGCCCTGAACGCGGACTGG  
CACGCAGACTGCTTCAGGTGTTGTGACTGCAGTGCCTCCCTGTGCGCACCAGTACTATGAGAAGGATGGGCAGCTC  
TTCTGCAAGAAGGACTACTGGGCCCCGCTATGGCGAGTCCCTGCCATGGGTGCTCTGAGCAAATCACCAAGGGACTG  
GTTATGGTGGCTGGGGAGCTGAAGTACCACCCCCGAGTGTTCATCTGCCTCACGTGTGGGACCTTTATCGGTGAC  
GGGGACACCTACACGCTGGTGGAGCACTCCAAGCTGTACTGCGGGCACTGCTACTACCAGACTGTGGTGACCCCC  
GTCATCGAGCAGATCCTGCCTGACTCCCCTGGCTCCCACCTGCCCCACACCGTCACCCCTGGTGTCCATCCCAGCC  
TCATCTCATGGCAAGCGTGGACTTTTCAGTCTCCATTGACCCCCGCGACGCCCCACCGGGCTGTGGCACCGAGCAC  
TCACACACCGTCCGCGTCCAGGGAGTGGATCCGGGCTGCATGAGCCCAGATGTGAAGAATTCCATCCACGTCGGA  
GACCGGATCTTGAAATCAATGGCACGCCCATCCGAAATGTGCCCTGGACGAGATTGACCTGCTGATTACAGGAA  
ACCAGCCGCTGCTCCAGCTGACCCTCGAGCATGACCCTCACGATACACTGGGCCACGGGCTGGGGCCTGAGACC  
AGCCCCCTGAGCTCTCCGGCTTATACTCCAGCGGGGAGGCGGGCAGCTCTGCCCGGCAGAAACCTGTCTTCGCA  
AGGACCTGGGTGCTCTGAGTCCCTCCGCGTAGTCTGCCGGCCACACCGCATCTTCCGGCCGTGGACCTCATCC  
ACGGGGAGGTGCTGGGCAAGGGCTGCTTCGGCCAGGCTATCAAGGTGACACACCGTGAGACAGGTGAGGTGATGG  
TGATGAAGGAGCTGATCCGGTTCGACGAGGAGACCCAGAGGACGTTCTCAAGGAGGTGAAGGTGATGCGATGCC  
TGGAACACCCCAACGTGCTCAAGTTCATCGGGGTGCTCTACAAGGACAAGAGGCTCAACTTCATCACTGAGTACA  
TCAAGGGCGGCACGCTCCGGGGCATCATCAAGAGCATGGACAGCCAGTACCCATGGAGCCAGAGAGTGAGCTTTG  
CCAAGGACATCGCATCAGGGATGGCCTACCTCCACTCCATGAACATCATCCACCGAGACCTCAACTCCCACAACT  
GCCTGGTCCGCGAGAACAAGAATGTGGTGGTGGCTGACTTCGGGCTGGCGCGTCTCATGGTGGACGAGAAGACTC  
AGCCTGAGGGCCTGCGGAGCCTCAAGAAGCCAGACCGCAAGAAGCGCTACACCGTGGTGGGCAACCCCTACTGGA  
TGGCACCTGAGATGATCAACGGCCGAGCTATGATGAGAAGGTGGATGTGTTCTCCTTTGGGATCGTCTGTGCG  
AGATCATCGGGCGGGTGAACGCAGACCCTGACTACCTGCCCCGACCATGGACTTTGGCCTCAACGTGCGAGGAT  
TCCTGGACCGCTACTGCCCCCCAACTGCCCCCGAGCTTCTTCCCCATCACCGTGCCTGTTGCGATCTGGACC  
CCGAGAAGAGGCCATCCTTTGTGAAGCTGGAACACTGGCTGGAGACCCTCCGATGCACCTGGCCGGCCACCTGC  
CACTGGGCCCCACAGCTGGAGCAGCTGGACAGAGGTTTCTGGGAGACCTACCGGCGCGGCGAGAGCGGACTGCCTG  
CCCACCTGAGGTCCCCGACTGAGCCAGGGCCACTCAGCTGCCCCGTGCCCCACCTCTGGAGAATCCACCCCCAC  
CAGATTCTCCGCGGGAGGTGGCCCTCAGCTGGGACAGTGGGGACCCAGGCTTCTCCTCAGAGCCAGGCCCTGAC  
TTGCCTTCTCCACCCCGTGGACCGCTTCCCCTGCCTTCTCTCTGCCGTGGCCCAGAGCCGGCCAGCTGCACAC  
ACACACCATGCTCTCGCCCTGCTGTAACCTCTGTCTTGGCAGGGCTGTCCCCTCTTGCTTCTCCTTGATGAGCT  
GGAGGGCCTGTGTGAGTTACGCCCTTTCCACACGCCGCTGCCCCAGCAACCCTGTTACGCTCCACCTGTCTGG  
TCCATAGCTCCCTGGAGGCTGGGCCAGGAGGCAGCCTCCGAACCATGCCCATATAACGCTTGGGTGCGTGGGAG  
GGCGCACATCAGGGCAGAGGCCAAGTTCAGGTGTCTGTGTTCAGGAACCAAATGGGGAGTCTGGGGCCCGTT  
TTCCCCCAGGGGGTGTCTAGGTAGCAACAGGTATCGAGGACTCTCCAAACCCCAAAGCAGAGAGAGGGCTGAT  
CCCATGGGGCGGAGGTCCCAGTGGCTGAGCAAACAGCCCCCTCTCTCGCTTTGGGTCTTTTTTTTGTTCCTTC  
TTAAAGCCACTTTAGTGAGAAGCAGGTACCAAGCCTCAGGGTGAAGGGGGTCCCTTGAGGGAGCGTGGAGCTGCG  
GTGCCCTGGCCGGCGATGGGGAGGAGCCGGCTCCGGCAGTGAGAGGATAGGCACAGTGGACCGGGCAGGTGTCCA  
CCAGCAGCTCAGCCCCGAGTCTCAGAGCCCCCTTCCGGGCTCTCCCCAAGGCTCCCTGCCCCCTCTCA  
TGCCCCCTCTGTCTCTGCGTTTTTCTGTGTAATCTATTTTTTAAGAAGAGTTTGTATTATTTTTTCATACGGCT  
GCAGCAGCAGCTGCCAGGGGCTTGGGATTTTATTTTTGTGGCGGGCGGGGTGGGAGGGCCATTTTGTCACTTTG  
CCTCAGTTGAGCATCTAGGAAGTATTAACCTGTGAAGCTTTCTCAGTGCACTTTGAACCTGGAAAACAATCCCA  
ACAGGCCCGTGGGACCATGACTTAGGGAGGTGGGACCCACCCACCCCATCCAGGAACCGTGACGTCCAAGGAAC  
CAAACCCAGACGCAGAACAATAAAATAAATTCCGTACTCCCCACCC

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**FIGURE 878**

MHHQQRRLRANGGRGGTGLGAGSGPVSGGHSPLCAHCRGQLLPHPEEPIVMALGQQWHCDCFRCSVCEGHLHNWYF  
EREGLLYCREDYYGRFGDACQQCMAVITGPVMVAGEHKFHPECFCCTACGSFIGEGESYALVERSKLYCGQCYGK  
RSCQPADAKARITTAGKPMHSIRLVEIPKDATPGLRVDGVALDDGCPTVRITDLFCNFFLWLTSMAEQCCGAPYR  
IDVNLTLNLHIGDRILEVNGTPVSDSSVEQIDKLIRSNEKMLQLTVEHDPVQVCRSCSQADIQRAMSASTLIILPLS  
TSASSVEVGRERLYKTPGEQGTKARKLRQATNASTTIPPAAGATAMTQLKEKERCSSLSKLLDEQHQAQQHSAHP  
QLYDLSRTQSCRVVQKPQRIFRATDLVIGEKLGEFFFGKVFVTHRQSGEVMVLKELHRADEEAQRNFIKEVAVL  
RLLDHRHVLKFIGVLYKDKKLHMTVEYVAGGCLKELIHDPAQVLPWPQVRVRLARDIACGMSYLSHMNIHRDLNS  
MNCLVREDRSVIVADFGRLARSVDAPRLPSGNMTPGGYGSAGNSDAPMSPSGTLRRSKSRQRRQRYTVVGNPYWMA  
PEMMKGLKYDEKLDVFSFGIMLCEIIGRVEADPDFMFRNSDFSLSNQQEFREKFCAQCPEPFVKVAFVCCDLNPD  
RPCFETLHVWLQRLADDLAADRVPPERLLHEIETFQEWYASSEDALSPTSQRSLNNLDELVKSADVSEISPVKE  
KENMVIKPDIPKSPHLGKDFSPSGERLRDSMRARRRQRFLGAQEERRNLTPDTESKERALKKALKKCRPFGERG  
YLVDLRAGAEQLQLEDVRDLNTYSDVDSSCDTSLNYHDVNNLPAAQEDENTVKPGKEELLEESTNKPSNQESQHHR  
LAIDDMRTRLNQCRSKFEHLEASRRNFNQSQHSMKNFFKTPFPVALKMFQRLHEEAAALNGGNNCPPPPPRTQRI  
NQTFIFGRKNPPVAIVGQKLQHAESLEDLASSGVAKQLATPAPKRSKATATTGGQSSNPFLFLPPSLNISVALN  
SNGNVTTTTNTNSSCPPSASDWLPKKHKLTLPLPSAQQQRTSSNHLRPMCNNKGKTLKPLPSRTGSQGIPASNCV  
SPTRSSRPGSPTKHLAQRHTAATAQRLTNAAATHQQQHQQQSSKTTRLNLSPEKVHRLGARLTDQKQKMREEAA  
ATASSVGGAGCAAGTAAGSLNGHRTIGSSGTPNSAVGERRRRAAPSPPVRTHFNTRC

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**FIGURE 879**

AAGTAGCTATGGCAGTGCCTGATACAAAATAAACTCCAAATGTGTATTTATTAGATGGTTGGATGGAAGTTATTT  
GCGTGTGAAAAGCGCGTTTTACCCGAAGGCGCTCTGTGAGGGCCAGCGGGTCCCCTTCGGCCCTGGAGCCGGGGTC  
ACACGCTCCCCACGCGTGCGGTCACGAGACGCCCCAAGGGAGTATCCTGGTACCCGGAAGCCGCGACTCCTGG  
CCCTGAGCCCCGGGCTTAGCCTTCGGGTCCACGTGGCCGGAGGCGGCAGCTGATTGGACGCGGGGCCGCCACCCC  
CTGGCCGTCGCGGGACCCGAGGACTGAGACCAATGGAGGCGGTGGCGGTGGCCGCGGCGGTGGGGGTCTTCTCC  
TGGCCGGGGCCGGGGGCGCGGCAGGCGACGAGGCCCGGGAGGCGGCGGCCGTGCGGGCGCTCGTGGCCCGGCTGC  
TGGGGCCAGGCCCGCGGCCGACTTCTCCGTGTCTGGTGGAGCGCGCTCTGGCTGCCAAGCCGGGCTTGGACACCT  
ACAGCCTGGGCGGCGGCGGCGGCGCGCGCTGCGGGTGC CGCGCTCCACGGGCGTGGCGGCCGCCGCGGGGCTGC  
ACCGCTACCTGCGCGACTTCTGTGGCTGCCACGTGGCCTGGTCCGGCTCTCAGCTGCGCCTGCCGCGGCCACTGC  
CAGCCGTGCCGGGGAGCTGACCGAGGCCACGCCCAACAGGTACCGCTATTACCAGAATGTGTGCACGCAAAGCT  
ACTCCTTCGTGTGGTGGGACTGGGCCCGCTGGGAGCGAGAGATAGACTGGATGGCGCTGAATGGCATCAACCTGG  
CACTGGCCTGGAGCGGCCAGGAGGCCATCTGGCAGCGGTGTACCTGGCCTTGGGCCTGACCCAGGCAGAGATCA  
ATGAGTTCTTTACTGGTCCTGCCTTCCTGGCCTGGGGGCGAATGGGCAACCTGCACACCTGGGATGGCCCCCTGC  
CCCCCTCCTGGCACATCAAGCAGCTTTACCTGCAGCACCGGGTCTTGGACCAGATGCGCTCCTTCGGCATGACCC  
CAGTGCTGCCTGCATTGCGGGGCATGTTCCCGAGGCTGTACACAGGGTGTTCCTCAGGTCAATGTACGAAGA  
TGGGCAGTTGGGGCCACTTTAACTGTTCTACTCTCTGCTCCTTCCTTCTGGCTCCGGAAGACCCCATATTCCCCA  
TCATCGGGAGCCTCTTCCTGCGAGAGCTGATCAAAGAGTTTGGCACAGACCACATCTATGGGGCCGACACTTTCA  
ATGAGATGCAGCCACCTTCCTCAGAGCCCTCCTACCTTGCCGCGAGCCACCACTGCCGTCTATGAGGCCATGACTG  
CAGTGGATACTGAGGCTGTGTGGCTGCTCCAAGGCTGGCTCTTCCAGCACCAGCCGAGTTCTGGGGGGCCGCC  
AGATCAGGGCTGTGCTGGGAGCTGTGCCCCGTGGCCGCCCTCTGGTTCTGGACCTGTTTGTGAGAGCCAGCCTG  
TGTATACCCGCACTGCCTCCTTCAGGGCCAGCCCTTCATCTGGTGCATGCTGCACAACCTTTGGGGGAAACCATG  
GTCTTTTGGAGCCCTAGAGGCTGTGAACGGAGGCCCAGAAGCTGCCCGCCTCTTCCCCAACTCCACCATGGTAG  
GCACGGGCATGGCCCCCGAGGGCATCAGCCAGAACGAAGTGGTCTATTCCCTCATGGCTGAGCTGGGCTGGCGAA  
AGGACCCAGTGCCAGATTTGGCAGCCTGGGTGACCAGCTTTGCCGCCCGGCGGTATGGGGTCTCCCACCCGGACG  
CAGGGGCAGCGTGGAGGCTACTGCTCCGGAGTGTGTACAACCTGCTCCGGGGAGGCCTGCAGGGGGCCACAATCGTA  
GCCCCGTGGTCAGGCGGCCGTCCCTACAGATGAATACCAGCATCTGGTACAACCGATCTGATGTGTTTGAGGCCT  
GGCGGCTGCTGCTCACATCTGCTCCCTCCCTGGCCACCAGCCCCGCCTTCCGCTACGACCTGCTGGACCTCACTC  
GGCAGGCAGTGCCAGGAGCTGGTCAGCTTGTACTATGAGGAGGCAAGAAGCGCCTACCTGAGCAAGGAGCTGGCCT  
CCCTGTTGAGGGCTGGAGGCGTCTGGCCTATGAGCTGCTGCCGGCACTGGACGAGGTGCTGGCTAGTGACAGCC  
GCTTCTTGCTGGGCAGCTGGCTAGAGCAGGCCCCGAGCAGCGGCAGTCAGTGAGGCCGAGGCGGATTTCTACGAGC  
AGAACAGCCGCTACCAGCTGACCTTGTGGGGGCCAGAAGGCAACATCCTGGACTATGCCAACAAGCAGCTGGCGG  
GGTTGGTGGCCAACTACTACACCCCTCGCTGGCGGCTTTTCCTGGAGGCGCTGGTTGACAGTGTGGCCAGGGCA  
TCCCTTTCCAACAGCACCAGTTTGACAAAAATGTCTTCCAACCTGGAGCAGGCCTTCGTTCTCAGCAAGCAGAGGT  
ACCCAGCCAGCCGCGAGGAGACACTGTGGACCTGGCCAAGAAGATCTTCCCTCAAATATTACCCCGGCTGGGTGG  
CCGGCTCTTGGTTGATAGATTGCGCACCACTGGGCCTTGTTTTCCGCTAATTCCAGGGCAGATTCCAGGGCCCAGA  
GCTGGACAGACATCACAGGATAACCCAGGCCTGGGAGGAGGCCCCACGGCCTGCTGGTGGGGTCTGACCTGGGGG  
GATTGGAGGGAAATGACCTGCCCTCCACCACCACCCAAAGTGTGGGATTAAAGTACTGTTTTCTTTCCACTTAAA

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**FIGURE 880**

MEAVAVAAAVGVLLLAGAGGAAGDEAREAAAVRALVARLLGPGPAADFSVSVERALAAKPGLDTYSLGGGGAARV  
RVRGSTGVAAAAGLHRYLRDFCGCHVAWSGSQLRLPRPLPAVPGELTEATPNRYRYYNVCTQSYSFVWWDWARW  
EREIDWMALNGINLALAWSGQEAIWQRVYLALGLTQAEINEFFTGPAFLAWGRMGNLHTWDGPLPPSWHIKQLYL  
QHRVLDQMRSFGMTPVLPAPAGHVPEAVTRVFPQVNVTKMGSWGHNCSYSCSFLLAPEDPIFPIIGSLFLRELI  
KEFGTDHIYGADTFNEMQPPSSEPSYLAATAVYEAMTAVDTEAVWLLQGWLFGHQPFQFWGPAQIRAVLGAVPR  
GRLVLDLFAESQPVYTRTASFQGPFIWCMLHNFGGNHGLFGALEAVNGGPEAARLFPNSTMVGTGMAPEGISQ  
NEVVYSLMAELGWRKDPVPDLAAWVTSFAARRYGVSHPDAGAAWRLLRSVYNCSGEACRGHNRSPVRRPSLQM  
NTSIWYNRSDVFEAWRLLLTSLAPSLATSPAFRYDLDDLTRQAVQELVSLYEEARSAYLSKELASLLRAGGVLAY  
ELLPALDEVLASDSRFLGWSLEQARAAVSEAEADFYEQNSRYQLTLWGPEGNILDYANKQLAGLVANYTTPRW  
RLFLEALVDSVAQGIPFQQHQFDKNVFQLEQAFVLSKQRYPSQPRGDTVDLAKKIFLKYYPGWVAGSW

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**FIGURE 881**

GGAGAGAGCCGCCGAGCCGAGCCGAGCCCCAGCTCCAGCAAGAGCGCGGGCGGGTGGCCCAGGCACGCAGCGGTG  
AGGACCGCGGCCACAGCTCGGCGCCAACCACCGCGGGCCTCCAGCCAGCCCCGCGGCGGGGCAGCCGCAGGAGC  
CCTGGCTGTGGTCGGGGGGCAGTGGGCC**ATG**CTGGGGGCAGTGGAAGGCCCCAGGTGGAAGCAGGCGGAGGACAT  
TAGAGACATCTACGACTTCCGAGATGTTCTGGGCACGGGGGCCTTCTCGGAGGTGATCCTGGCAGAAGATAAGAG  
GACGCAGAAGCTGGTGGCCATCAAATGCATTGCCAAGGAGGCCCTGGAGGGCAAGGAAGGCAGCATGGAGAATGA  
GATTGCTGTCTGCACAAGATCAAGCACCCCAACATTGTAGCCCTGGATGACATCTATGAGAGTGGGGGCCACCT  
CTACCTCATCATGCAGCTGGTGTCTGGGTGGGGAGCTCTTTGACCGTATTGTGGAAAAAGGCTTCTACACGGAGCG  
GGACGCCAGCCGCCTCATCTTCCAGGTGCTGGATGCTGTGAAATACCTGCATGACCTGGGCATTGTACACCGGGA  
TCTCAAGCCAGAGAATCTGCTGTACTACAGCCTGGATGAAGACTCCAAAATCATGATCTCCGACTTTGGCCTCTC  
CAAGATGGAGGACCCGGGCAGTGTGCTCTCCACCGCCTGTGGAACCTCCGGGATACGTGGCCCCCTGAAGTCCTGGC  
CCAGAAGCCCTACAGCAAGGCTGTGGATTGCTGGTCCATAGGTGTCATCGCCTACATCTTGCTCTGCGGTTACCC  
TCCCTTCTATGACGAGAATGATGCCAAACTCTTTGAACAGATTTTGAAGGCCGAGTACGAGTTTGACTCTCCTTA  
CTGGGACGACATCTCTGACTCTGCCAAAGATTTTCATCCGGCACTTGATGGAGAAGGACCCAGAGAAAAGATTAC  
CTGTGAGCAGGCCTTGCAGCACCCATGGATTGCAGGAGATACAGCTCTAGATAAGAATATCCACCAGTCGGTGAG  
TGAGCAGATCAAGAAGAACTTTGCCAAGAGCAAGTGGAAGCAAGCCTTCAATGCCACGGCTGTGGTGCGGCACAT  
GAGGAAACTGCAGCTGGGCACCAGCCAGGAGGGGCAGGGGCAGACGGCGAGCCATGGGGAGCTGCTGACACCAGT  
GGCTGGGGGGCCGGCAGCTGGCTGTTGCTGTGCGAGACTGCTGCGTGGAGCCGGGCACAGAACTGTCCCCACACT  
GCCCCACCAGCTC**TAG**GGCCCTGGACCTCGGGTCATGATCCTCTGCGTGGGAGGGCTTGGGGGCAGCCTGCTCCC  
CTTCCCTCCCTGAACCGGGAGTTTCTCTGCCCTGTCCCTCCTCACCTGCTTCCCTACCACTCCTCACTGCATTT  
TCCATACAAATGTTTCTATTTTATTGTTTCTTCTTGTAAATAAAGGGAAGATAAAACCAAAAAAAAAAAAAAAAAA  
A

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**FIGURE 882**

MLGAVEGPRWKQAEDIRDIYDFRDVLGTGAFSEVILAEDKRTQKLVAIKCIAKEALEGKEGSMENEI AVLHKIKH  
PNIVALDDIYESGGHLYLIMQLVSGGELFDRIVEKGFYTERDASRLIFQVLDAVKYLHDLGIVHRDLKPENLLYY  
SLDEDSKIMISDFGLSKMEDPGSVLSTACGTPGYVAPEVLAQKPYSKAVDCWSIGVIAYILLCGYPPFYDENDAK  
LFEQILKAEYEFDSPYWDDISDSAKDFIRHLM EKDP EK RFTCEQALQHPWIAGDTALDKNIHQSVSEIQIKNF AK  
SKWKQAFNATAVVRHMRKLQLGTSQEGQGQTASHGELLTPVAGGPAAGCCCRDCCVEPGTELSPTLPHQL

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**FIGURE 883**

CAGAGGGAGGAAGAAGCGGGCGGCGGGCGGGCGGGCTCCTCTTTGCAGAGGGGGAAACTCTTGGGCTGAGAGCA  
GGAACAACGCGGTAGGCAAGGCGGGCTGCTGGCTCCCCCGGCTCCGGCAGCAGCGGGCGGCAGCCCGAGCAGCGGC  
AGCAGCAGCGGCAGCACCCAGGCGCTGACAGCCCCGCCGGCCGGCTCCGTTGCTGACCGCCGACTGTCA**ATGGA**  
GCTGGAAAACATCGTGGCCAACACGGTCTTGCTGAAAGCCAGGGAAGGGGGCGGAGGAAAAGCGCAAAGGGAAAAG  
CAAGAAGTGGAAGAAATCCTGAAGTTCCCTCACATTAGCCAGTGTGAAGACCTCCGAAGGACCATAGACAGAGA  
TTACTGCAGTTTATGTGACAAGCAGCCAATCGGGAGGCTGCTTTTCCGGCAGTTTTGTGAAACCAGGCCTGGGCT  
GGAGTGTTACATTTCAGTTCTTGGACTCCGTGGCAGAATATGAAGTTACTCCAGATGAAAACTGGGAGAGAAAGG  
GAAGGAAATTATGACCAAGTACCTCACCCCAAAGTCCCCTGTTTTCATAGCCCAAGTTGGCCAAGACCTGGTCTC  
CCAGACGGAGGAGAAGCTCCTACAGAAGCCGTGCAAAGAACTCTTTTCTGCCTGTGCACAGTCTGTCCACGAGTA  
CCTGAGGGGAGAACCATTCCACGAATATCTGGACAGCATGTTTTTTGACCGCTTCTCCAGTGGAAGTGGTTGGA  
AAGGCAACCGGTGACCAAAAACACTTTCAGGCAGTATCGAGTGCTAGGAAAAGGGGGCTTCGGGGAGGTCTGTGC  
CTGCCAGGTTTCGGGCCACGGGTAAAATGTATGCCTGCAAGCGCTTGGAAGAAGAAGAGGATCAAAAAGAGGAAAGG  
GGAGTCCATGGCCCTCAATGAGAAGCAGATCCTCGAGAAGGTCAACAGTCAGTTTGTGCTCAACCTGGCCTATGC  
CTACGAGACCAAGGATGCACTGTGCTTGGTCTGACCATCATGAATGGGGGTGACCTGAAGTTCCACATCTACAA  
CATGGGCAACCCCTGGCTTCGAGGAGGAGCGGGCCTTGTTTTATGCGGCAGAGATCCTCTGCGGCTTAGAAGACCT  
CCACCGTGAGAACACCGTCTACCGAGATCTGAAACCTGAAAACATCCTGTTAGATGATTATGGCCACATTAGGAT  
CTCAGACCTGGGCTTGGCTGTGAAGATCCCCGAGGGAGACCTGATCCGCGGCCGGGTGGGCACTGTTGGCTACAT  
GGCCCCCGAAGTCTGAACAACCAGAGGTACGGCCTGAGCCCCGACTACTGGGGCCTTGGCTGCCTCATCTATGA  
GATGATCGAGGGCCAGTCGCCGTTCGCGGCCGTAAGGAGAAGGTGAAGCGGGAGGAGGTGGACCGCCGGGTCTT  
GGAGACGGAGGAGGTGTACTCCCACAAGTTCTCCGAGGAGGCCAAGTCCATCTGCAAGATGCTGCTCACGAAAGA  
TGCGAAGCAGAGGCTGGGCTGCCAGGAGGAGGGGGCTGCAGAGGTCAAGAGACACCCCTTCTTCAGGAACATGAA  
CTTCAAGCGCTTAGAAGCCGGGATGTTGGACCCCTCCCTTCGTTCCAGACCCCGCGCTGTGTACTGTAAGGACGT  
GCTGGACATCGAGCAGTTCTCCACTGTGAAGGGCGTCAATCTGGACCACACAGACGACGACTTCTACTCCAAGTT  
CTCCACGGGCTCTGTGTCCATCCCATGGCAAAACGAGATGATAGAAACAGAATGCTTTAAGGAGCTGAACGTGTT  
TGGACCTAATGGTACCCTCCCGCCAGATCTGAACAGAAACCACCCTCCGGAACCGCCCAAGAAAGGGCTGCTCCA  
GAGACTCTTCAAGCGGCAGCATCAGAACAATTCCAAGAGTTCGCCCAGCTCCAAGACCAGTTTTTAACCACCACAT  
AAACTCAAACCATGTCTAGCTCGAACTCCACCGGAAGCAGC**TAG**TTTTCGGCTCTGGCCTCCAAGTCCACAGTGGAA  
CCAGCCCAGACCCCTTCTCCTTAGAAGTGGAAGTAGTGGAGCCCTGCTCTGGTGGGGCTGCCAGGGGAGACCCCG  
GGAGCCGGAAGGAGGCCGTCCATCCCGTCGACGTAGAACCTCGAGGTTTCTCAAAGAAATTTCCACTCAGGTCTG  
TTTTCCGAGGCGGCCCGGGCGGGTGGATTGGATTGTCTTTGGTGAACATTGCAATAGAAAATCCAATTGGATAC  
GACAACTTGACGATTTTTTAATAGCGTCATAACTAGAAGTGAATTTTGTCTTTATGATTTTTAAAGAAAAGTTTT  
GTAAATTTCTCTACTGTCTCAGTTTACATTTTCGGTATATTTGTATTTAAATGAAGTGAGACTTTGAGGGTGTAT  
ATTTTCTGTGCAGCCACTGTTAAGCCATGTGTTCCAAGGCATTTTAGCGGGAGGGGGTTATCAAAAAAAAAAAAA  
AATGTGACTCAAGACTTCCAGAGCCTCAAATGAGAAAATGTCTTTATTAAATGTAGAAAGTGATCCATACTTCAA  
AAAAAA



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**FIGURE 884**

MELNIVANTVLLKAREGGGGKRGKSKKWKEILKFPHISQCEDLRRTIDRDYCSLCKQPIGRLLFRQFCETRP  
GLECYIQFLDSVAEYEVTPDEKLGEKGKEIMTKYLTPKSPVFIQVGGDLVSQTEEKLLQKPKELFSACAQSVH  
EYLRGEPFHEYLD SMFFDRFLQWKWLERQPVTKNTRQYRVLGKGGFGEVCACQVRATGKMYACKRLEKKRIKKR  
KESMALNEKQILEKVNSQFVVNLAYAYETKDALCLVLTIMNGGDLKFHIYNMGNPGFEEERALFYAAEILCGLE  
DLHRENTVYRDLKPENILLDDYGHIRISDLGLAVKIPEGDLIRGRVGTVGYMAPEVLNNQRYGLSPDYWGLGCLI  
YEMIEGQSPFRGRKEKVKREEVDRRVLETEEVYSHKFSEEAKSICKMLLTAKQRLGCQEEGAAEVKRHPFFRN  
MNFKRLEAGMLDPPFVPDPRAVYCKDVLDIEQFSTVKGVNLDHTDDDFYSKFSTGSVSIPWQNEMIETECFKELN  
VFGPNGTLPPDLNRNHPPEPPKKGLLQRLFKRQHQNNSKSSPSSKTSFNHHINSNHVSSNSTGSS

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**FIGURE 885**

GTCTTCGGTGTCTGGGTGTGGTGAGTAGAGGTGTGTGTACAAAGTACAGACCATTGTGTGTGACAAAGCCCAT  
CGTGCTGTCTGTGTGTGTCTTTATCCACGTGGATGGACGTCTCTTTCTTGCTCTGCCCCAAGACACACCCTAGCCC  
CTCCTTATTCTCAAAAGGGGGAGCTGGGGAGCCTCCCCCTACCCTGGGGCCTCCCCTGCCCCCTCCCGCCCTGCC  
TGGCCGTACCACTCCCCAGAGGGCACAGGGCTCTGCTGTGCCTCAGAGCAAAAGTCCCAGAGCCAGCAGAGCAG  
GCTGACGACCTGCAAGCCACAGTGGCTGCCCTGTGCGTGCTGCGAGGTGGGGGACCCTGGGCAGGAAGCTGGCTG  
AGCCCCAAGACCCCGGGGGCCATGGGCGGGGATCTGGTGCTTGGCCTGGGGGCCTTGAGACGCCGAAAGCGCTTG  
CTGGAGCAGGAGAAGTCTCTGGCCGGCTGGGCACCTGGTGCTGGCAGGAAGTGGCATTGGACTCATGGTGCTGCAT  
GCAGAGATGCTGTGGTTCGGGGGGTGCTCGTGGGCGCTCTACCTGTTCTGGTTAAATGCACGATCAGCATTTCC  
ACCTTCTTACTCCTCTGCCTCATCGTGGCCTTTTCATGCCAAAGAGGTCCAGCTGTTTCATGACCGACAACGGGGCTG  
CGGGACTGGCGCGTGGCGCTGACCGGGCGGCAGGCGGCGCAGATCGTGCTGGAGCTGGTGGTGTGTGGGCTGCAC  
CCGGCGCCCGTGGGGGGCCGCCGTGCGTGCAGGATTTAGGGGCGCCGCTGACCTCCCCGCAGCCCTGGCCGGGA  
TTCCTGGGCCAAGGGGAAGCGCTGCTGTCCCTGGCCATGCTGCTGCGTCTCTACCTGGTGCCCCGCGCCGTGCTC  
CTGCGCAGCGGCGTCTGCTCAACGCTTCCTACCGCAGCATCGGCGCTCTCAATCAAGTCCGCTTCCGCCACTGG  
TTCGTGGCCAAGCTTTACATGAACACGCACCCTGGCCGCTGCTGCTCGGCCTCACGCTTGGCCTCTGGCTGACC  
ACCGCCTGGGTGCTGTCCGTGGCCGAGAGGCAGGCTGTTAATGCCACTGGGCACCTTTTCAGACACACTTTGGCTG  
ATCCCCATCACATTCCTGACCATCGGCTATGGTGACGTGGTGGCGGGCACCATGTGGGGCAAGATCGTCTGCCTG  
TGCACTGGAGTCATGGGTGTCTGCTGCACAGCCCTGCTGGTGGCCGTGGTGGCCCGGAAGCTGGAGTTTAAACAAG  
GCAGAGAAGCACGTGCACAACCTTCATGATGGATATCCAGTATACCAAAGAGATGAAGGAGTCCGCTGCCCCAGTG  
CTACAAGAAGCCTGGATGTTCTACAAACATACTCGCAGGAAGGAGTCTCATGCTGCCCCGAGGCATCAGCGCAAG  
CTGCTGGCCGCCATCAACGCGTTCCGCCAGGTGCGGCTGAAACACCGGAAGCTCCGGGAACAAGTGAAGTCCATG  
GTGGACATCTCCAAGATGCACATGATCCTGTATGACCTGCAGCAGAATCTGAGCAGCTCACACCGGGCCCTGGAG  
AAACAGATTGACACGCTGGCGGGGAAGCTGGATGCCCTGACTGAGCTGCTTAGCACTGCCCTGGGGCCGAGGCAG  
CTTCCAGAACCCAGCCAGCAGTCCAAGTTAGCTGGACCCACGAGGAGGAACCAGGCTACTTTCCCCAGTACTGAGG  
TGGTGGACATCGTCTCTGCCACTCCTGACCCAGCCCTGAACAAAGCACCTCAAGTGCAAGGACAAAGGGGGCCC  
TGGCTTGGAGTGGGTTGGCTTGCTGATGGCTGCTGGAGGGGACGCTGGCTAAAGTGGGTAGGCCTTGGCCCACCT  
GAGGCCCCAGGTGGGAACATGGTCACCCCACTCTGCATACCCTCATCAAAAACACTCTCACTATGCTGCTATGG  
ACGACCTCCAGCTCTCAGTTACAAGTGCAGGCGACTGGAGGCAGGACTCCTGGGTCCCTGGGAAAAGAGGGTACTA  
GGGGCCCGGATCCAGGATTCTGGGAGGCTTCAGTTACCGCTGGCCGAGCTGAAGAAGTGGGTATGAGGCTGGGGC  
GGGGCTGGAGGTGGCGCCCCCTGGTGGGACAACAAAGAGGACACCATTTTTTCAGAGCTGCAGAGAGCACCTGGT  
GGGAGGAAGAAGTGTAACCTACCAGCCTCTGCTCTTATCTTTGTAATAAATGTTAAAGCCAG

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**FIGURE 886**

MGDDLVLGLGALRRRKRLLEQEKSLAGWALVLAGTGIGLMVLHAEMLWFGGCSWALYLFLVKCTISISTFLLLCL  
IVAFHAKEVQLFMTDNGLRDWRVALTGRQAAQIVLELVVCGLHPAPVRGPPCVQDLGAPLTSPQPWPGFLGQGEA  
LLSLAMLLRLYLVPRAVLLRSGVLLNASYRSIGALNQVRFRHWFVAKLYMNTHPGRLLLGLTLGLWLTTAWVLSV  
AERQAVNATGHLSDTLWLIPITFLTIGYGDVVPGMTMWGKIVCLCTGVMGVCCTALLVAVVARKLEFNKAEKHVHN  
FMMDIQYTKEMKESAARVLQEAWMFYKHTRRKESHAARRHQKLLAAINAFRQVRLKHKRLREQVNSMVDISKMH  
MILYDLQQNLSSSHRALEKQIDTLAGKLDALTELLSTALGPRQLPEPSQQSK

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**FIGURE 887**

ACCTCCCAACCAAGCCCTCCAGCAAGGATTGAGGAGTGCCCTCGGGCCTCGCCATGAGGCTCTTCCTGTCGCTC  
CCGGTCCTGGTGGTGGTTCTGTCGATCGTCTTGGAAGGCCCAGCCCCAGCCCAGGGGACCCCAGACGTCTCCAGT  
GCCTTGGATAAGCTGAAGGAGTTTGAAACACACTGGAGGACAAGGCTCGGGAACATCAGCCGCATCAAACAG  
AGTGAACTTTCTGCCAAGATGCGGGAGTGGTTTTGAGAGACATTTGAGAAAGTGAAGGAGAACTCAAGATTGAC  
TCATGAGGACCTGAAGGGTGACATCCAGGAGGGGCCTCTGAAATTTCCACACCCCAGCGCCTGTGCTGAGGACT  
CCCGCCATGTGGCCCCAGGTGCCACCAATAAAAAATCCTACCG

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**FIGURE 888**

MRLFLSLPVLVVVLSIVLEGPAPAQGTPDVSSALDKLKEFGNTLEDKARELISRIKQSELSAKMREWFSETFQKV  
KECLKIDS

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**FIGURE 889**

CGTGGGAGCAGTGGGGTTTCGACGGCGCGGCCGCGAGGCCGCC**ATG**GCCGCTCACGGGAAGCTGCGGCGGGAGCGG  
GGGCTGCAGGCTGAGTATGAGACGCAAGTCAAAGAGATGCGCTGGCAGCTGAGCGAGCAGCTGCGCTGCCTGGAG  
CTGCAGGGCGAGCTGCGGCGGGAGTTGCTGCAGGAGCTGGCAGAGTTCATGCGGCGCCGCGCTGAGGTGGAGCTG  
GAATACTCCCGGGGCTGGAAAAGCTGGCCGAGCGCTTCTCCAGCCGTGGAGGCCGCTGGGGAGCAGCCGGGAG  
CACCAAAGCTTCCGGAAGGAGCCGTCCCTCCTGTGCGCCCTTGCACTGCTGGGCGGTGCTGCTGCAGCACACGCGG  
CAGCAGAGCCGGGAGAGCGCGGCCCTGAGTGAGGTGCTGGCCGGGCCCCCTGGCCAGCGCCTGAGTCACATTGCA  
GAGGACGTGGGGCGCCTGGTCAAGAAGAGCAGGGATCTGGAGCAGCAGCTGCAGGATGAGCTCCTGGAGGTGGTC  
TCAGAGCTCCAGACGGCCAAGAAGACGTACCAGGCATATCACATGGAGAGCGTGAATGCCGAGGCCAAGCTCCGG  
GAGGCCGAGCGGCAGGAGGAGAAGCGGGCAGGCCGAGTGTCCCCACCACCACCGCTGGTGCCACTGAGGCAGGG  
CCCCCTCCGCAAGAGCTCCCTCAAGAAGGGAGGGAGGCTGGTGGAGAAGCGGCAGGCCAAGTTCATGGAGCACAAA  
CTCAAGTGACAAAGGCGCGCAACGAGTACCTGCTTAGCCTGGCTAGTGTCAACGCTGCTGTGAGTAATACTACTAC  
CTGCATGACGTCTTGACCTCATGGACTGCTGTGACACAGGGTTCCACCTGGCCCTGGGGCAGGTGCTCCGGAGC  
TACACGGCCGCTGAGAGCCGCACCCAAGCCTCCCAAGTGAGGGCCTGGGCAGCCTGGAAGAAGCTGTGGAGGCC  
CTGGATCCTCCAGGGGACAAAGCCAAGGTTCTCGAGGTGCATGCTACCGTCTTCTGTCCCCGCTGCGCTTTGAC  
TACCACCCCCATGATGGGGATGAGGTGGCTGAGATCTGCGTTGAAATGGAGCTGCGGGACGAGATTCTGCCCAGA  
GCCCAGAACATCCAGAGCCGCCTGGACCGACAGACCATTGAGACAGAGGAGGTGAACAAGACTCTGAAGGCGACA  
CTGCAGGCCCTGCTGGAGGTGGTGGCTCGGATGACGGGGATGTGCTTGATTCTTCCAGACCAGCCCCCTCCACC  
GAGTCCCTCAAGTCCACCAGCTCAGACCCAGGCAGCCGGCAGGCGGGCCGGAGGCGCGGCCAGCAGCAGGAGACC  
GAAACCTTCTACCTCACGAAGCTCCAGGAGTATCTGAGTGGACGGAGCATCCTCGCCAAGCTGCAGGCCAAGCAC  
GAGAAGCTGCAGGAGGCCCTTCAGCGAGGTGACAAGGAGGAGCAGGAGGTGTCTTGACCCAGTACACACAGAGA  
AAATTCCAGAAGAGCCGCCAGCCCCGCCCCAGCTCCCAGTATAACCAGAGACTCTTTGGGGGAGACATGGAGAAG  
TTTATCCAGAGCTCAGGCCAGCCTGTGCCCTGGTGGTGGAGAGCTGCATTGCTTTCATCAACCTCAATGGCCTG  
CAGCATGAAGGCATCTTCCGGGTATCGGGTGCCAGCTCCGGGTCTCAGAGATCCGTGATGCCTTCGAGAGAGGG  
GAGGACCCACTGGTGGAGGGCTGCACTGCCCATGACCTGGACTCGGTGGCCGGGGTGTGAAGCTCTACTTCCGG  
AGCCTGGAGCCCCCACTCTTCCCCCAGACCTGTTGCGCGAGCTGCTGGCTTCTTCGGAGCTGGAGGCCACAGCG  
GAGAGGGTGGAGCACGTGAGCCGCTGCTGTGGCGGCTGCCCGCGCCGGTGTGGTGGTTCTGCGCTACCTCTTC  
ACCTTCCTCAACCACCTGGCCAGTACAGCGATGAGAACATGATGGACCCCTACAACCTGGCCGTGTGCTTCCGG  
CCCACGCTGCTACCGGTGCCGCTGGGCAGGACCCGGTGGCGCTGCAGGGCCGGGTGAACCAGCTGGTGCAGACG  
CTCATAGTGACCCGATCGGGTCTTCCGCCCCCTGACCTCGCTGCCTGGCCCCGTCTACGAGAAGTGCATGGCA  
CCGCCTTCCGCCAGCTGCCTGGGGGACGCCAGCTGGAGAGCTGGGGGCGGACAATGAGCCGGAGCTGGAAGCC  
GAGATGCCCGCACAGGAGGATGACCTGGAGGGGGTCTGTGGAGGCTGTGGCCTGCTTTGCCTACACGGGCGGCACA  
GCCCAGGAGCTGAGCTTCCGGCGGGGGACGTACTGCGGCTGCACGAGAGGGCCTCGAGCGACTGGTGGCGGGG  
GAGCACAACGGCATGCGGGGCTCATCCCCACAAGTATATCACGCTGCCCGCCGGGACGGAGAAGCAGGTGGTG  
GGCGCAGGGCTGCAGACTGCAGGGGAGTCTGGGAGCAGTCCCGAGGGCCTCCTGGCATCGGAGCTGGTCCACCGG  
CCAGAGCCATGCACCTCACCTGAGGCCATGGGACCCTCTGGACACAGACGACGCTGCTTGGTCCCAGCCTCCCCA  
GAGCAACACGTGGAGGTGGATAAGGCTGTGGCACAGAACATGGACTCTGTGTTTAAGGAGCTCTTGGGAAAGACC  
TCTGTCCGCCAGGGCCTTGGGCCAGCATCTACCACCTCTCCAGTCTTGGGCCCCGAAGCCCCAAAGCCCCGCC  
AGCAGCCGCTGGGCAGGAACAAAGGCTTCTCCCGGGGCCCTGGGGCCCCAGCCTCACCTCAGCTTCCCACCCC  
CAGGGCCTAGACACGACCCCCAAGCCACAC**TGA**AGTGCCGCTGCTGGAGATGCGTGCCCCCGGCGGCTACCCGCT  
GGACCGGCCACTCTCCCCAGCCCCCTTGCTTCTCTCCAGCCCTGTCCAGCAAGTGAGGGTGCCTGCACTTCACC  
CTGTGCAGAGAGGTGGGATGGGGCCGTGCACACAGGGATGCCCGCTCCACATCCTGCCTGCCCCCTCAGCCCTGGC  
CCAGGCCCTTTTGGAGGCAGCTGAGGAAGGATGCTGGGGAAAGCCCTCTTCTGCAGCTTTGTGGAAGGCTGATC  
AGTGGCTGCTGGGTGGCGGGTACCCTTGCTCAGATGCCTGGCAGGGCTGGGTGGCGATTATATAAGACCTCGTGT  
TGATTCCCCG

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**FIGURE 890**

MAAHGKLRRERGLQAEYETQVKEMRWQLSEQLRCLELQGELRRELLQELAEFMRRRAEVELEYSRGLEKLAERFS  
SRGGRLGSSREHQSFKEPSLLSPLHCWAVLLQHTRQQSRESAALSEVLAGPLAQRLSHIAEDVGRLVKKSRDLE  
QQLQDELLEVVSELQTAKKTYQAYHMESVNAEAKLREAERQEEKRAGRSVPTTTAGATEAGPLRKSSSLKKGRLV  
EKRQAKFMEHKLKCTKARNEYLLSLASVNAAVSNYYLHDVLDLMDCCDTGFHLALGQVLRSYTAAESRTQASQVQ  
GLGSLEEAVEALDPPGDKAKVLEVHATVFCPPLRFDYHPHDGDEVAEICVEMELRDEILPRAQNIQSRLDRQTIE  
TEEVNKTLLKATLQALLEVVASDDGDVLDLDFQTSPTESLSTSSDPGSRQAGRRRGQQQETETFTYLTCLKQEYLSG  
RSILAKLQAKHEKLQELQRGDKEEQEVSWTQYTQKFKQSRQPRPSSQYNQRLFGGDMKEFIQSSGQPVPLVVE  
SCIRFINLNLQHEGIFRVSGAQLRVSEIRDAFERGEDPLVEGCTAHDLDLVAGVLKLYFRSLEPPLFPDLFGE  
LLASSELEATAERVEHVSRLWRLPAPVLVVLRYLFTFLNHLAQYSDENMMDPYNLAVCFGPTLLPVPAQDPVA  
LQGRVNQLVQTLIVQPDVFPPLTSLPGPVYEKCMAPPSASCLGDAQLES LGADNEPELEAEMPAQEDDLEGVVE  
AVACFAYTGRTAQELSFRRGDVLRLHERASSDWWRGHNGMRGLIPHKYITLPAGTEKQVVGAGLQTAGESGSSP  
EGLLASELVHRPEPCTSPPEAMGPSGHRRRCLVPASPEQHVEVDKAVAQNMDSVFKELLGKTSVRQGLGPASTTSP  
SPGPRSPKAPPSSRLGRNKGFSRGP GAPASPASHPQGLDTPKPH

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**FIGURE 891A**

GGGAACCTGGATTAGGTGGAGAGGCAGTTGGGGGGCCTCGTTGTTTTGCGTCTTAGTTCGGCCCTCCTGTCCATC  
AGGAGAAGGAAAAGGATAAACCCCTGGGCC**ATG**AGGCTACCCCTGCTCCTGGTTTTTGCCTCTGTCAATCCGGGTGC  
TGTTCTCCTACTGGACACCAGGCAATTTTTAATCTATAATGAAGATCACAGCGCTGCGTGGATGCAGTGAGTCC  
CAGTGCCGTCCAAACCGCAGCTTGCAACCAGGATGCCGAATCACAGAAATTCCGATGGGTGTCCGAATCTCAGAT  
TATGAGTGTTCATTTAAATTATGCCTGGGAGTGCCATCAAAAAACAGACTGGGTTGCTATCACTCTCTATGCCTG  
TGACTCAAAAAAGTGAATTTAGAAATGGGAGTGCAAAAAATGACACACTTTTGGGGATCAAAGGAGAAGATTTATT  
TTTTAACTACGGCAACAGACAAGAAAAGAATATTATGCTCTACAAGGGATCGGGTTTATGGAGCAGGTGGAAGAT  
CTATGGAACCACAGACAATCTGTGCTCCAGAGGTTATGAAGCCATGTATACGCTACTAGGCAATGCCAATGGAGC  
AACCTGTGCATTTCCCGTTCAAGTTTGAAAACAAGTGGTACGCAGATTGCACGAGTGCTGGGCGGTTCGGATGGATG  
GCTCTGGTGCAGAACCACTACTGACTATGACACAGACAAGCTATTTGGATATTGTCCATTGAAATTTGAGGGCAG  
TGAAAGCTTATGGAATAAAGACCCGCTGACCAGCGTTTCCTACCAGATAAACTCCAAATCCGCTTTAACGTGGCA  
CCAAGCGAGGAAAAGCTGCCAACAACAGAACGCTGAGCTCCTGAGCATCACAGAGATACATGAGCAAACATACCT  
GACAGGATTAACCAGTTCCTTGACCTCAGGACTCTGGATTGGACTTAACAGTCTGAGCTTCAACAGCGGTTGGCA  
GTGGAGTGACCGCAGTCTTTCCGATATTTGAACTGGTTACCAGGAAGTCCATCAGCTGAACCTGGAAAAAGCTG  
TGTGTCACTAAATCCTGGAAAAAATGCTAAATGGGAAAAATCTGGAATGTGTTCAGAACTGGGCTATATTTGCAA  
AAAGGGCAACACCCTTTAAATTCTTTGTTATTCCCTCAGAAAGTGATGTGCCTACTCACTGTCTAGTCAGTG  
GTGGCCGTATGCCGGTCACTGTTACAAGATTACAGAGATGAGAAAAAATCCAGAGGGATGCTCTGACCACCTG  
CAGGAAGGAAGGCGGTGACCTCACAAGTATCCACACCATCGAGGAATTGGACTTTATTATCTCCAGCTAGGATA  
TGAGCCAAATGACGAATTGTGGATCGGCTTAAATGACATTAAGATTCAAATGTACTTTGAGTGGAGTGATGGGAC  
CCCTGTAACGTTTACCAAATGGCTTCGTGGAGAACCAAGCCATGAAACAACAGACAGGAGGATTGTGTGGTGAT  
GAAAGGCAAGGATGGGTACTGGGCAGATCGGGGCTGTGAGTGGCCTCTTGGCTACATCTGCAAGATGAAATCACG  
AAGCCAAGGTCCAGAAATAGTGGAAGTCGAAAAAGGCTGCAGGAAGGCTGGAAAAACATCACTTTTACTGCTA  
TATGATTGGACATACGCTTTCAACATTTGCAGAAGCAAACCAAACCTGTAATAATGAGAATGCTTATTTAACAAC  
TATTGAAGACAGATATGAACAAGCCTTCCTGACTAGTTTTCGTTGGCTTAAGGCCTGAAAAATATTTCTGGACAGG  
ACTTTCAGATATACAAACCAAAGGGACTTTTTCAGTGGACCATCGAGGAAGAGGTTTCGGTTCACCCACTGGAATTC  
AGATATGCCAGGGCGAAAGCCAGGGTGTGTTGCCATGAGAACCAGGATTGCAGGGGGCTTATGGGATGTTTTGAA  
ATGTGATGAAAAGGCAAAATTTGTGTGCAAGCACTGGGCAGAAAGGAGTAACCCACCCACCGAAGCCACGACGAC  
TCCCGAACCCAAATGTCCGGAGGATTGGGGCGCCAGCAGTAGAACAAGCTTGTGTTTCAAGCTGTATGCAAAAGG  
AAAACATGAGAAGAAAACGTGGTTTGAATCTCGAGATTTTTGTGCGAGCTCTGGGTGGAGACTTAGCTAGCATCAA  
TAACAAAGAGGAACAGCAACAATATGGCGATTAATAACAGCTAGTGGAAGCTACCACAAACTGTTTTGGTTGGG  
ATTGACATATGGAAGCCCTTCAGAAGGTTTTACTTGGAGTGATGGTTCTCCTGTTTCATATGAAAACCTGGGCTTA  
TGGAGAACCTAATAATTATCAAAATGTTGAATACTGTGGTGAGCTGAAAGGTGACCCTACTATGTCTTGGAATGA  
TATTAATTGTGAACACCTTAACAACCTGGATTTGCCAGATACAAAAGGACAAACACCAAAACCTGAGCCAACACC  
AGCTCCTCAAGACAATCCACCAGTTACTGAAGATGGGTGGGTTATTTACAAAGACTACCAGTATTATTTAGCAA  
AGAGAAGGAAACCATGGACAATGCGCGAGCGTTTTGCAAGAGGAATTTTGGTGATCTTGTTTCTATTCAAAGTGA  
AAGTGAAAAGAAGTTTCTATGGAAATATGTAAACAGAAATGATGCACAGTCTGCATATTTTATTGGTTTATTGAT  
CAGCTTGGATAAAAAGTTTGCTTGGATGGATGGAAGCAAAGTGGATTACGTGTCTTGGGCCACAGGTGAACCCAA  
TTTTGCAAATGAAGATGAAAACCTGTGTGACCATGTATTCAAATTCAGGGTTTTGGAATGACATTAACCTGTGGCTA  
TCCAAACGCCTTCATTTGCCAGCGACATAACAGTAGTATCAATGCTACCACAGTTATGCCTACCATGCCCTCGGT  
CCCATCAGGGTGCAAGGAAGGTTGGAATTTCTACAGCAACAAGTGTTTCAAATCCTTTGGATTTATGGAAGAAGA  
AAGAAAAAATTGGCAAGAGGCACGAAAAGCTTGATAGGCTTTGGAGGGAATCTGGTCTCCATACAAAATGAAAA  
AGAGCAAGCATTCTTACCTATCACATGAAGGACTCCACTTTCAGTGCCTGGACTGGGCTGAATGATGTCAATTC  
AGAACACACGTTTCCTTTGGACGGATGGACGAGGAGTCCATTACACAACTGGGGGAAAGGTTACCCTGGTGGAAAG  
AAGAAGCAGTCTTTCTTATGAAGATGCTGACTGTGTGTTATTATTGGAGGTGCATCAAATGAAGCAGGAAAAATG  
GATGGATGATACCTGCGACAGTAAACGAGGCTACATATGCCAGACACGATCCGACCCTTCCTTGACTAATCCTCC  
AGCAACGATTCAAACAGATGGCTTTGTAAATATGGCAAAAGCAGCTATTCACTCATGAGACAAAAATTTCAATG  
GCATGAAGCGGAGACATACTGCAAGCTTCACAATTCCTTATAGCCAGCATTCTGGATCCCTACAGTAATGCATT  
TGCGTGGCTGCAGATGGAACATCTAATGAACGTGTGTGGATCGCCCTGAACAGTAACTTGACTGATAATCAATA



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**FIGURE 891B**

CACTTGGACTGATAAGTGGAGGGTGAGGTACACTAACTGGGCTGCTGATGAGCCCAAATTGAAATCAGCATGTGT  
TTATCTGGATCTTGATGGCTACTGGAAGACAGCACATTGCAATGAAAGTTTTTACTTTCTCTGTAAAAGATCAGA  
TGAAATCCCTGCTACTGAACCCCCACAACCTGCCTGGCAGATGCCCCGGAGTCAGATCACACAGCATGGATTCCCTT  
CCATGGTCACTGTTACTATATTGAGTCCTCATATACAAGAACTGGGGCCAAGCTTCTCTGGAATGTCTTCGAAT  
GGGTTCCCTCTCTGGTTTTCCATTGAAAGTGCTGCAGAAATCCAGTTTTCTGTTCATATCGGGTTGAGCCACTTAAAAG  
TAAAACCAATTTTTGGATAGGATTGTTTCAGAAATGTTGAAGGGACGTGGCTGTGGATAAAATAACAGTCCGGTCTC  
CTTTGTCAACTGGAACACAGGAGATCCCTCTGGTGAACGGAATGATTGTGTAGCTTTACATGCGTCTTCTGGGTT  
TTGGAGTAATATTCAGTGTTCCTTACAAAAGGATATATTTGTAAAAGACCAAAAATTATTGATGCTAAACCTAC  
TCATGAATTACTTACAACAAAAGCTGACACAAGGAAGATGGACCCCTTCTAAACCGTCTTCCAACGTGGCCGGAGT  
AGTCATCATTGTGATCCTCCTGATTTTAACGGGTGCTGGCCTTGCCGCCTATTTCTTTTATAAGAAAAGACGTGT  
GCACCTACCTCAAGAGGGCGCCTTTGAAAACACTCTGTATTTTAACAGTCAGTCAAGCCCAGGAACCTAGTGATAT  
GAAAGATCTCGTGGGCAATATTGAACAGAATGAACACTCGGTTCATCTAGTACCTCAATGCGATTCTGAGATATTT  
GAATTTTCATAAAATTGTAAGTGAATTTAAAATTTTGTAGTTCAATGTGATTGTTTTCTTTAAATGAGTACTGAA  
TTGTACTGGTCTGTCCTTTTTTCTTTGCCTAATTGAAGAAATAATTGCTTGTTTTCTAGCCTGGCAAGATATTT  
TCATAAAAGAGGGATAACAATGCTGATTACTACCTTTTAAAATATTTTAGATAAATGCACAGCACCACAGCACCA  
CATCTAAGCATTAGTGATGGGTAGCTGATGTCAGCTTCATGTGGATTTTAAGCACTCTAGAAACAATGAAGCTTC  
TTGGCATATTTTAAGGAGCTCCCAAAATGTGTTACCTATTAAATTGTAAGTCAAGTAGAAGACCATTGAAA  
AGTCAGGTACAAATTTCTCAAGTGGCATAAAAAATGTAGTCAGTTTTCTCTTTTACCAGTTTTTATTCCACTCC  
AATTATTTAGAACTTTATTTGTACATGTGCAGAAGAATAAGGCAGCTGAGAATCTTGTTTCCCCAAGAGAGTTT  
TACAGGCTGAGTGTGCAAATGTGTTCTTTGTCTGTTATATGTATATCAGGAATACAAGGATGTGAAATAAAAC  
TGTAATTTGCATAACTGGATGTACTTAGATAATGTGAAATAAACATTAAAGACAAGGTCTATTTTAAATAAAAA  
AAAAAAAAAA

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**FIGURE 892**

MRLPLLLVFASVIPGAVLLLDTRQFLIYNEDHKRCVDAVSPSAVQTAACNQDAESQKFRWVSESQIMSVAFKLCL  
GVPSKTDWVAITLYACDSKSEFQKWECKNDTLLGIKGEDLFFNYGNRQEKNIMLYKGSGLWSRWKIYGTDDNLCS  
RGYEAMYTLLGNANGATCAFPFKFENKQYADCTSAGRSDGWLWCGTTTTDYDTDKLFGYCPLKFEGSESLWNKDPL  
TSVSYQINSKSALTWHQARKSCQQQNAELLSITEIHEQTYLTGLTSSLTSGLWIGLNSLSFNSGWQWSDRSPFRY  
LNLWLPGSPSAEPGKSCVSLNPGKNAKWENLECVQKLGYICKKGNTTLNSFVIPSESDVPTHCP SQWWPYAGHCYK  
IHRDEKKIQRDALTTCRKEGGDLTSIHTIEELDFIISQLGYEPNDELWIGLNDIKIQMYFEWSDGTPVTF TKWLR  
GEP SHENNRQEDCVVMKGKDGWADRGCEWPLGYICKMKRSRQGP EIVEVEKGCRCGWKKHHFYCYMIGHTLSTF  
AEANQTCNNENAYLTTIEDRYEQAF L TSFVGLRPEKYFWTGLSDIQTKGTFQWTIEEEVRETHWNSDMPGRKPGC  
VAMRTGIAGGLWDVLKCDKAKFVCKHWAEGVTHPPKPTTTTPEPKCPEDWGASSRTSLCFKLYAKGKHEKKTWFE  
SRDFCRALGGDLASINNKEEQQT IWRLITASGSYHKLFWLGLTYGSPSEGFTWSDGSPVSYENWAYGEPNNYQNV  
EYCGELKGDPTMSWNDINCEHLNNWICQIQKGQTPKPEPTPAPQDNPPVTE DGWVIYKDYQYYFSKEKETMDNAR  
AFCKRNFGDLVSIQSESEKKFLWKYVNRNDAQSAYFIGLLISLDKKFAWMDGSKVDYVSWATGEPNFANEDENCV  
TMYSNSGFWN D INCGYPNAFICQRHNSSINATTVMPTMP SVP SGCKEGWNFYSNKCFKIFGFMEEEKKNWQEAR  
ACIGFGGNLVS IQNEKEQAF L TYHMKDSTFSAWTGLNDVNSEHTFLWTDGRGVHYTNWGKGYPGRRSSLSYEDA  
DCVVIIGGASNEAGKWMDDTCD SKRGYICQTRSDPSLTNPPATIQT DGFVKY GKSSYSLMRQKFQWHEAETYCKL  
HNSLIASILD PYSNAFAWLQMETSNERNVIALNSNLTDNQYTWTDKWRVRYTNWAADEPKLKSACVYLDLDGYWK  
TAHCNESFYFLCKRSDEIPATEPPQLPGRCPESDHTAWIPFHGH CY YIESSYTRNWGQASLECLRMGSSLVSIES  
AAESSFLSYRVEPLKSKTNFWIGLFRNVEGTW LWINNSPVSFVNWNTGDP SGERND CVALHASSGFWSNIHCSSY  
KGYICKRPKIIDAKPTHELLTTKADTRKMDPSKPSSNVAGVVIIVILLILT GAGLAAYFFYKKRRVHLPQEGAFE  
NTLYFNSQSSPGTSDMKDLVGNIEQNEHSV I

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**FIGURE 893**

AGCGCAGCACTCCCCGCTCGTTGGCCCGGGTATCCCAGCGCGGACCCACGCGATACGCTGACGCCCCGACGCCGA  
TCCGGCCGAGCCAAGTAAGGGGGACGGCCCGAGACGGAGAAGGGAGAGAGTGGGAGTTTCCCAGCCCGCAGAACT  
TTCGAAGTTGAGAAGAGAACCCCTGGAACGTGCGCTCAGCACTGGGATTTTCTGGACTCAACG**ATG**ACTCTGAAT  
AATGTCACCATGCGCCAGGGCACTGTGGGCATGCAGCCACAGCAGCAGCGCTGGAGCATCCCAGCTGATGGCAGG  
CATCTGATGGTCCAGAAAGAGCCCCACCAGTACAGCCACCGCAACCGCCATTCTGCTACCCCTGAGGACCACTGC  
CGCCGAAGCTGGTCCTCTGACTCCACAGACTCAGTCATCTCCTCTGAGTCAGGGAACACCTACTACCGAGTGGTG  
CTCATAGGGGAGCAGGGGGTGGGCAAGTCCACTCTGGCCAACATCTTTGCAGGTGTGCATGACAGCATGGACAGC  
GACTGCGAGGTGCTGGGAGAAGATACATATGAACGAACCCCTGATGGTTGATGGGGAAAGTGCAACGATTATACTC  
CTGGATATGTGGGAAAATAAGGGGGAAAATGAATGGCTCCATGACCACTGCATGCAGGTGCGGGACGCATACCTG  
ATTGTCTACTCAATCACAGACCGAGCGAGCTTCGAGAAGGCATCTGAGCTGCGAATCCAGCTCCGCAGGGCCCCGG  
CAGACAGAGGACATTCCCATAAATTTTGGTTGGCAACAAAAGTGACTTAGTGCGGTGCCGAGAAGTGTCTGTATCA  
GAAGGGAGAGCCTGTGCAGTGGTGTGTTGACTGCAAGTTTCATCGAGACCTCTGCAGCTGTCCAGCACAAACGTGAAG  
GAGCTGTTTGAGGGCATTGTGCGACAGGTGCGCCTTCGGCGGGACAGCAAGGAGAAGAATGAACGGCGGCTGGCC  
TACCAGAAAAGGAAGGAGAGCATGCCAGGAAAGCCAGGCGCTTCTGGGGCAAGATCGTGGCCAAAAACAACAAG  
AATATGGCCTTCAAGCTCAAGTCCAAATCCTGCCATGACCTCTCTGTACTC**TAGGA**ACCCAGGGTCACCCAGATG  
TCCCTTTGATGGCCCTTGTTGAAGGCCATTGGGACCAATAATCTATATTAGATTGAATACTTAAGTTAGATGTGG  
TTTCCCCCATTGTAGCAGGGAGCTAGCGTATTAGCCTTGTTGGGCAACATGATGCATGGGAAATGAAAGATTTTGT  
TAAAAAGTCAGTATTTATTTCCAGGAAAAGCCTGACCTTGCTATTTGAACACCCAAGACTCTTTAGAGGATGTGT  
TTGGTGTTACATGTGTTTCTTCTATTTTGGATAGTAGGGAAGTAAAGCTTACAAAGAATGCCTAGAACAAAGAAC  
TTTTCATCATTAATAATTTTCCAGTGTTCTGATATGTGACTTTGAGGCCAATGAGTCATAAACAAATATAAGA  
AAGCTGTCAATGAGTTTCTTCAAAGGAGGGAAAACCTTCTACGAATCTAAGATCCATGGAGCTAGAATTGTAGAA  
CTAGGCTCATCAGAATCGTGAATATTATTGCTCCATCAAACCTGTGAAAAGAAATGATGTGGACCTTGCTGGAAAC  
AAAGGCTTAGCAAACAATTTTGTTCATGCCCACCGAGACATATAGAATTGGGAACTGATACATGTGTCCCTTA  
TAGGCTCAAAAATTATATCTTACAATTTCTTATTTAGGGGGAAATTTATTTGAATCAGATTCTATTTAGTCAAACC  
ACCTTTTATGTTTTATTATTTTGAATTCATGGAGCCATCATAAAAATATTTTAAATCAGAATTATTGATACC  
CTGTAGTGCAAAATGTCAATTTTAAATGTATAATCAGAACTCTGAATTTTCATAAAACATATAGCATAAAAACCT  
CCAGTACTTTGGTTGACCTTGATGTACAGCTCTGCTCTATTTATTATTATTTTGCAAAATAACCATTTTAAAC  
ATTTGATAAAGCATATTTATGAACATATTTCTTAATAAGAAAAATATCCATTTTATTACATTTTCTATCTTTT  
CAAAATATGCAAGTTTTTACCTATATGTCTTATAATAAAAGAAATAAAATATTTGA

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**FIGURE 894**

MTLNNVTMRQGTVMQPQQQRWSIPADGRHLMVQKEPHQYSHRNRHSATPEDHCRRSWSSDSTDVISSESGNTY  
YRVVLIGEQQGVGKSTLANIFAGVHDSMDSDCEVLGEDTYERTLMVDGESATIILLDMWENKGENEWLHDHCMQVG  
DAYLIVYSITDRASFEEKASELRIQLRRARQTEDIPIILVGNKSDLVRCREVSVSEGRACAVVFDCKFIETSAAVQ  
HNVKELFEGIVRQVRLRRDSKEKNERRLAYQKRKESMPRKARRFWGKIVAKNNKNMAFKLKSCHDLSVL

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**FIGURE 895**

GGGCGGGTAGTCGACCGTGTCGCGCGCCTGGGAGACGCTGCCTCGGCCCCGACGCGCCCGCGCCCCCGCGGCTG  
GAGGGTGGTCGCCACTGGGACACTGTGAACCAGGAGTGAGTCGGAGCTGCCGCGCTGCCAGGCC**ATG**GACTGTG  
AGGTCAACAACGGTTCCAGCCTCAGGGATGAGTGCATCACAAACCTACTGGTGTTTGGCTTCCTCCAAAGCTGTT  
CTGACAACAGCTTCCGCAGAGAGCTGGACGCACTGGGCCACGAGCTGCCAGTGCTGGCTCCCCAGTGGGAGGGCT  
ACGATGAGCTGCAGACTGATGGCAACCGCAGCAGCCACTCCCGCTTGGGAAGAATAGAGGCAGATTCTGAAAGTC  
AAGAAGACATCATCCGGAATATTGCCAGGCACCTCGCCCAGGTCGGGGACAGCATGGACCGTAGCATCCCTCCGG  
GCCTGGTGAACGGCCTGGCCCTGCAGCTCAGGAACACCAGCCGGTCGGAGGAGGACCGGAACAGGGACCTGGCCA  
CTGCCCTGGAGCAGCTGCTGCAGGCCTACCCTAGAGACATGGAGAAAGGAGAAGACCATGCTGGTGCTGGCCCTGC  
TGCTGGCCAAGAAGGTGGCCAGTCACACGCCGTCTTGCTCCGTGATGTCTTTCACACAACAGTGAATTTTATTA  
ACCAGAACCTACGCACCTACGTGAGGAGCTTAGCCAGAAATGGGATGGACT**TGAA**ACGGACAGTTCCAGAAGTGTGA  
CTGGCTAAAGCTTGATGTGGTCACAGCTGTATAGCTGCTTCCAGTGTAGACGGAGCCCTGGCATGTCAACAGCGT  
TCCTAGAGAAGACAGGCTGGAAGATAGCTGTGACTTCTATTTTAAAGACAATGTTAAACTTATAACCCACTTTAA  
AATATCTACATTAATATACTTGAATGAAAATGTCCATTTACACGTATTTGAATGGCCTTCATATCATCCACACAT  
GAATCTGCACATCTGTAAATCTACACACGGTGCCTTTATTTCCACTGTGCAGGTTCCCACTTAAAAATTAAATTG  
GAAAGCAGGTTTCAAGGAAGTAGAAACAAAATACAATTTTTTTGGTAAAAAAAAA

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**FIGURE 896**

MDCEVNNGSSLRDECITNLLVFGFLQSCSDNSFRRELDALGHELPVLAPQWEGYDELQTDGNRSSHSRLGRIEAD  
SESQEDIIRNIARHLAQVGDSMDRSIPPGLVNGLALQLRNTSRSEEDRNRDLATALEQLLQAYPRDMEKEKTMV  
LALLLAKKVASHTPSLLRDVFHTTVNFINQNLRTYVRSLARNGMD

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**FIGURE 897**

GGCACGAGGGACAAAGGCTGCAGGGGGACCCCTGCCTGCCAGGAGGGCCCCTCAGGGAGTAAACCCCTAAGGGGC  
TCACTTAAGGAGGAGGTAGCCCTGGATTTGAGTGTGAGGAAGCCACAGCAGAGGCCTCCCCTGTCAAGGCTTCC  
CGTTCGTGTGGAGCATGCCAAGCCTACTGCAGCCATGGATGTGCCAGATGTGGGCAACATGGTGTCTAGATCTGCCA  
GGCCTGAAAAAGATAGACACAGAAGCACCAGGCTTGCCCTGGGGTGCCAGTGACCACAGATGCCATGCCAAGGACC  
AACTTCCACAGCTCTGTGGCCTTCATGTTCCGAAAAGTTCAAGATCCTCCGTCCGGCACCTTTGCCTGCAGCCGTG  
GTCCCGTCCACGCCCACCTCAGCTCCTGCTCCCACACAGCCTGCACCCACCCCCACATCTGGGCCCCATTGGACTG  
CGGATTCTCGCTCAACAGCCCTTGTCTGTGACCTGCTTCAGCCTGGCACTGCCAGCCCTCCAGCCGTAGCTGTG  
GCCTCCCCTGCCCCCTGCTCCAGCTCCATCCCCCTGCTCCGGCTCGAGCTCAGGCTCCAGCTTCAGCCCGGGATCCA  
GCTCCAGCTCCAGCTCCAGTTGCAGGCCCTGCTCCAGCATCTACTTCAGCCCCAGGGGACTCCCTGGAGCAGCAT  
TTTACAGGACTACATGCGTCCCTGTGTGATGCTATTTCTGGCTCCGTGCGCCACTCTCCTCCAGAGAAGCTTCGC  
GAGTGGCTAGAGACGGCTGGGGCCCTGGGGCCAGGCTGCGTGGCAGGACTGCCAGGGTGTGCAGGGGGCTGCTGGCC  
AAGCTGCTGTCTCAGCTGCAGCGCTTCGATCGCACCCACCGGTGCCCTTCCCCCATGTGGTGCAGAGCTGGCGCC  
ATCTTCGTGCCATTACCTGGTGAAGGAGCGGCTCTTCCCTCGGCTGCCACCCGCTTCTGTGGACCATGTGCTG  
CAGGAGCATCGTGTGGAGCTGCGGCCCCACACGCTGTGCGAGGAGCGGGCACTGCGGGAGCTCGCCCTGCCAGGC  
TGCACCTCACGCATGCTGAAGTTACTGGCGCTGCGCCAGCTGCCGGACATTTACCCCGACCTTCTCGGCCTGCAG  
TGGCGCGACTGTGTACGCCGCCAGCTGGGTGAGCATGGGGCGAGCCCCAGTGGCCACCGGAGCTGTGTGAGCAAGT  
GACAGGTGACTTTTGACACTGAGGCTGGAGCTGTGTCTCTCCTCAGAGCCCACTGTGGCCAGAGATGAGCCAGAGAG  
CCTAGCCCTGGCTCAGAAGTCACCGGCCCCCAAGGTGAGGAAGCCAGGCAGGAAGCCACCAACCCCTGGCCCCGA  
GAAAGCAGAGGCAGCTGCTGGGGAAGAGTCTGTGGTGCCTCCCCTACCCCTGCTACCAGTGCCAGCCCACCTGG  
CCCCACACTGAAGGCCCGCTTCCGCAGTCTGCTGGAGACCGCCTGGCTCAATGGCCTGGCTCTGCCACCTGGGG  
CCACAAGTCCTCAAGACCAGACCAGCCCTCACCCCTGCCACAGCTGCTGGACAGCCAGAGCCATCACCTGTAGCA  
CTGGTTGCCAGTGCTGTGTGTATAGCAGTCACTCTCCACCCTTCCCTTCTGCCTGCCAGCTGCCCCGGGGCCAC  
GAGTGGATGCTGGGGCTGTGGCTGCTCCCCTGGAGGGGTTCATCTCTGACCCTGTGGCCATTAGGGTGGGCT  
GAAGAGCCCCCTGAGCTTTTAACGTGAGGGTCTTTATTGGATAGGACTACTCCCTATTTCTTGCTAGAGAACACA  
CATGGGCTTTGGAGCCCCGACAGACCTGGGCTTGAATCCCGGCTCGTGTCTTGCTGCAGGACCTGGGCAAGAAAC  
TTCACCTCTGCTGAGCCCTCATTCCCCATGTGTAAATGGGACAACGCAACCTACCTCACAGGGTTGTTGTGGGG  
ATGCTGCCTGATACATACCCTGTCACCATTTGGTCTCTGCTTCCTCTCTGGGACAGGGCCTAGAATTGGAGGCAG  
AGAACCTTCCTATAGAAAGTCTTCGTGTGTCTAGGACTTGGCTATCGTAGAGTGGTACCTTAGGCAGTGGATGT  
GACTCACACTCTCAGGAGTCACCCCCCAGCATTTGGGGTTGGGTTGGCCCTACTCCAGCCTGGAGCTCCCTGAGG  
GAGCCTGCACTCCCTGCTCCCAATCCCCGCTACTGGTGCAGGGATGCAGCCTGGAGCTGGCGTCTTGTCTGGG  
CCTGCTGCTGCCGCCACCCAGGAGGCCCCAGGCCTGTCCTGAATTGACATCAGTGCTTCCCTGAACTGCCTCCC  
CCACCCCTGGCATTATCCCAGGAAACTTAIGTTTTCTAGAAGCTAAGCAGCTGCTGGGACTCAGGGACTGGTGCA  
GGTAGGCTGAGTGGCAGCTCAGTCCTAGAAGGTCTCTGAAGATCTGGACTGAGGACCCTGCTACTCCCCAAGCCA  
GAGCCCATCAGCCAGGCCTGCTGTGAGCCACCTGCCTGTGGAGTGTGAGCTCAACCAAGGCTGGCAAGCTCTG  
GGCCTCATTTAAGGGATTCTGATGAGCCGATGGGCCCTGGAGGCAGCCATTAAAGCATCTGGCTCGTTTTTGGA  
AAAAAAAAAAAAAAAAAAAA

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**FIGURE 898**

MGQPQWPPELCEQVTGDFDTEAGAVSSSEPTVARDEPESLALAQKSPAPKVRKPGRKPPTPGPEKAEAAAGEESC  
GASPTPATSASPPGPTLKARFRSLLETAWLNGLALPTWGHKSSRPDQFSPCPQLLDSQSHHL



[illegible]

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**FIGURE 900**

MGPGRLLLLPLVLCVGLGALVFSSGAEGFRKRGPSVTAKVFFDVRIQDKDVGRIVIGLFGKVVPKTVENFVALAT  
GEKGYGYKGSKFHRVIKDFMIQGGDITTGDGTGGVSIYGETFPDENFKLKHYGIGWVSMANAGPDTNGSQFFITL  
TKPTWLDGKHVVFGKVIDGMTVVHSIELQATDGHDRPLTNCSIINSGKIDVKTPFVVEIADW



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**FIGURE 902**

MGPGPRLLLPLVLCVGLGALVFSSGAEGFRKRGPSVTAKVFFDVRIGDKDVGRIVIGLFGKVVPKTVENFVALAT  
GEKGYGYKGSKFHRVIKDFMIQGGDITTGDGTGGVSIYGETFPDENFKLKHYGIGWVSMANAGPDTNGSQFFITL  
TKPTWLDGKHVVFGKVIDGMTVVHSIELQATDGHDRPLTNCSIINSGKIDVKTPFVVEIADW

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**FIGURE 903A**

CCACGCGTCCGCCCGGCGCTAAGCCGGGAGACAAGATCCGATCTACTGAGAGCTGCGAGGTACTGCCCTGGATGT  
GGTGGAGCTGGGCTGGGACCTCCGGGCTGCTGGTCTGTGAGCCTGGCTTTGAAAATTGGTTACTGGGTCTCCTCT  
CAAGAAATCTCAAGATATTAAAGTTACTGCTGTTAAAAAGTGCACGAGCATAGCTGTGTCTCGGAAATGGTTGGC  
TTTGGGCAGTTCAGGAGGAGGACTCCATCTCATTCAGAAAGAAGGCTGGAAGCACAGGCTTTTTCTTTCACACAG  
GGAAGGTGCAATTTCTCAAGTCGCCTGTTGTTTACATGATGATGATTATGTTGCTGTAGCTACCAGTCAAGGTCT  
TGTGGTTGTTTGGGAATTAAATCAAGAGCGTCGTGGGAAACCGGAACAAATGTATGTGTCTTCAGAACACAAAGG  
CCGAAGAGTCACAGCTCTCTGCTGGGATACAGCTATTCTTAGAGTTTTTGTAGGTGATCATGCTGGGAAGGTTTC  
TGCTATCAAACCTCAATACTTCTAAACAAGCAAAGGCAGCTGCTGCTTTTGTGATGTTTCTGTTTCAGACAATCAC  
AACTGTTGACTCCTGTGTTGTACAGTTAGATTATTTGGATGGAAGGCTACTTATATCTTCACTTACTCGATCCTT  
CTTGTGTGACACTGAGAGAGAAAAGTTTTGGAAAATTGGAAACAAGGAAAGAGATGGAGAATATGGAGCTTGTTT  
CTTTCCTGGAAGATGTTCTGGGGGCCAGCAACCTCTGATATATTGTGCTCGCCAGGCTCTAGGATGTGGGAAGT  
GAACCTTGATGGAGAAGTTATAAGTACACATCAGTTCAAGAACTCCTCTCGTTGCCACCTCTCCCTGTGATTAC  
TCTAAGATCAGAACCTCAGTATGATCATAACAGCTGGATCCTCCAGTCTTTGTCTTTCCCAAACCTCTTACATCT  
TAGTGAGCATTGTGTGCTGACTTGGACAGAAAAGAGGAATTTATATTTTCATTCTCAGAAATGTTCAAGTTCTTCT  
TTGGAGTGAAGTCAAAGATATTCAGGATGTGGCTGTCTGTAGGAATGAATTGTTCTGTTTGCACCTAAATGGGAA  
AGTCTCACATCTCTCCCTGATATCTGTGGAGCGCTGTGTGGAACGCCTGCTAAGAAGAGGCCTATGGAACCTGGC  
TGCTCGTACATGCTGTCTTTTCCAAAATTCTGTCTATTGCCAGCAGAGCAAGAAAACTTTGACTGCAGATAAATT  
GGAGCATTGAAATCTCAGCTGGACCATGGCACCTACAATGATCTAATTTCTCACTGGAAGAATTGATCTTAAA  
ATTTGAACCTTTGGATTGAGCTTGTAGCAGTAGAAGAAGCTCCATTTTCATCACATGAAAGTTTCAGCATCTTGA  
CTCTGGTATTTATCGTATCATTAGTAGTAGAAGAGGCAGTCAGTCAGATGAAGACTCTTGCTCCCTTCACAGCCA  
AACCTCTCAGAAGATGAGAGATTTAAAGAATTCACCTCACAGCAGGAAGAGGACCTGCCAGATCAGTGTTGTGG  
CTCACACGGAAATGAAGACAATGTTTCTCATGCTCCAGTGATGTTTGAGACAGATAAGAATGAACTTTTTCTCCC  
GTTCCGCATTCCATTACCATTTCGTTCTCCATCTCCTCTTGTGTCTCTTCAGGCTGTCAAAGAAAGTGTTTCTAG  
CTTTGTGCGTAAAACTACTGAGAAGATTGGCACCTTCACACGAGCCCTGATCTGAAAGTGAGACCAGAGCTCAG  
GGGTGATGAGCAATCATGTGAAGAGGATGTGAGTTCAGATACCTGCCCAAAGGAGGAAGACACTGAGGAGGAAAA  
AGAGGTAAGTAGTCCACCTCCAGAAGAAGACAGGTTCCAGGAGCTTAAAGTAGCAACAGCAGAAGCAATGACCAA  
GCTACAGGACCTCTGGTTTTATTTGAATCCGAGTCTCTGAGAATGGTTTTACAGGAGTGGCTTTCACATTTAGA  
AAAAACATTTGCCATGAAGGACTTTTCAGGTGTTTCAGATACTGACAACTCATCCATGAAATTGAACCAGGATGT  
GCTATTAGTTAATGAATCAAAAAAGGGAATATTAGATGAAGATAATGAAAAAGAAAAAGGGACTCTTTAGGCAA  
TGAAGAATCTGTTGATAAAACAGCATGTGAATGTGTAAGGAGTCCAAGGGAGTCTTTGGATGACCTGTTTCAAAT  
ATGTTCTCCATGCGCCATTGCAAGTGGTCTTCGGAACGACCTGGCTGAATTGACAACATTATGTTTGGAGTTGAA  
TGTATTGAATTCTAAGATCAAAAGCACCAGTGGACATGTGGACCACACTTTGCAACAGTACTCTCCTGAAATTCT  
GGCTTGCCAGTTCCTGAAGAAGTACTTTTTCTCCTGAACTTGAAAAGAGCGAAGGAGAGTATCAAGCTTAGTTA  
CAGTAATAGCCCTTCTGTTTGGGATACTTTTTATTGAAGGATTGAAAGAAATGGCAAGTTCCAATCCTGTGTATAT  
GGAGATGGAAAAAGGAGATCTACCAACAAGGTTAAAGTTACTAGATGACGAGGTTCCCTTTTGATAGTCCGTTGTT  
GGTTGTTTATGCTACCCGGTTGTATGAAAAGTTTGGGGAGTCTGCTCTTCGATCCTTAATCAAGTTCTTTCCATC  
CAATTTTGCCATCGGATATCATAACAATTTGTCTATCATCATCCTGCTGAGTTTTTGGCCTATTTAGACAGTCTGGT  
GAAATCAAGGCCTGAAGATCAGCGGTCTCTTTCTTGAGTCCCTTCTGCAACCAGAGTCTTTAAGGTTGGATTG  
GCTGCTTTTGGCAGTGTCCCTTGATGCTCCACCAAGCACCAGCACAATGGATGATGAAGGTTATCCAGGCCTCA  
TTCACACTTGCTTTCCCTGGGGTTACAGTCAGCTGATCCTTCATCTAATTAACTTCCCTGCAGATTTTATAACCAA  
AGAGAAAAATGACAGACATCTGCAGGTCTTGTGGTTTCTGGCCTGGATATCTAATTCTCTGTTTGGAGCTGGAGAG  
AAGAAGAGAGGCCTTCACCAATATTGTGTATCTGAATGATATGAGCCTGATGAAAGGGGACAATGGTTGGATCCC  
AGAGACCGTGGAGGAATGGAAGCTTCTCCTTCATCTCATAACAGAGCAAGAGCACGAGGCCAGCCCCCAGGAGTC  
ACTAAATGGGAGCCTCAGTGTGGGCTTCCCCCATCAATGTGGAGAATGTGGCACTTCTGTTAGCTAAGGCCAT  
GGGCCCAGATCGGGCTTGGTCACTGCTACAGGAATGTGGTCTGGCCCTTGAGTTGTGAGAGAAGTTTACCAGAAC  
CTGCGATATCCTGAGGATTGCTGAGAAAAGGCAGAGGGCCTTGATACAAAGCATGCTTGAAAAATGCGATCGGTT  
TCTCTGGTCCCAGCAGGCCTAGTGGGAGAAGATTGAGCAGGATGTCATGACATTTTGAGAAAACTAAATCATGC  
TCCTGAACCTTCTGAACGCATTTGTTATTGAAGGAAAGACACCACCCCAAATCCTGCCATCTTATTGGGGCTAC

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**FIGURE 903B**

TTTTGTCAGTGTCTGTACCCCTTGGCATCGGCATCTGTGACTCTTTATCCATGACCTCAGTGTTTCTTAACCAAAG  
TTGTACTCAGCATTTCCTTAACCAAAGTTGAATTTTGAAAAGAGTCAGTCCTTGTTTGCTGGAATTAGAATGTTAA  
TGTCCCTAGTATTATTCCGAACCTACAGTATTAAGCTTGTGCTAGTGGATTAGACAGATTCTTTTCTTACTGTG  
GCTTCCATGTTGGGAGCAGAAAGCTTTTCATCCTGGTCACATGAAGACAGATGGTATTATTGACTGGAGTTGAATT  
ATTTTTATATCTTGTCTGGCACAATATGGAATTAATGAAATAAGACGGTGTATAATGGAATTAACACCCAAAAT  
AAGTAGAACACTGAAGATTGAAATTTGATATTTAAGTAAATGGGACTGGGTGCAGTGGCTCAGGCCTGTAATCC  
CAACCCCTTTGGAAGGTAAAGACGGGAGGATCACTTGAGGCCAGGAGTTCAAGACCAGCCTGGGCAACATAGTGAG  
AATGCATCTCTACAAAAAATAAAAAAATTAGCTAGGCATAGTACCTGAGGCCAGGAGGTCCAGGCCGCAATGAG  
ATGTGTTTGTGCCATTGCACACCAGTCTGGGTGACAGAGAAAGACCCTGTCTCAAAAACAAATTAATAAAATAT  
CTTCATATATAAATTAAGCTAATTAAAAATATTTTTCCCTGTATTTATTTAATATTTTCTAATCTGAACCCATAT  
ACAGCTGACTAATTCATTCTTAGAAATGTGTTATCTGTAATCTTTCTAAACAGAGTAGCCCACAAGAATCATGC  
ACTTTTTAAAATTATTTCTAAGAAGCCATAACAAAGCTGTGTACTAATAAAGACTGCAGCAAGCACTTGTGTTAT  
TTAAATTATGTAAGTAGATTGTCATTTGTCAGGCTCCTGTACATTTACATAGCATGTTATATTAATAATAAATGT  
AAAATATGACTAAAGTTTTTCATTGGAIAAAAAAAAAAAAAA

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**FIGURE 904**

MYVSSEHKGRRVTALCWDTAILRVFVGDHAGKVSIAIKLNTSKQAKAAAAFVMFPVQTITTTVDSCVVQLDYLDGRL  
LISSLTRSFLCDTEREKFWKIGNKERDGEYGACFFPGRCSGGQQPLIYCARPGSRMWEVNF DGEVISTHQFKLL  
SLPPLPVITLRSEPQYDHTAGSSQSLSFPKLLHLSEHCVLTWTERGIYIFIPQNVQVLLWSEVKDIQDVAVCRNE  
LFCLHLNGKVSHLSLISVERCVERLLRRGLWNLAARTCCLFQNSVIASRARKTLTADKLEHLKSQLDHGTYNDLI  
SQMEELILKFEPILDSACSSRRSSISSHESFSILDSGIYRIISSRRGSQSDSDSCSLHSQTLSEDERFKEFTSQQE  
EDLPDQCCGSHGNEDNVSHAPVMFETDKNETFLPFGIPLPFRSPSPLVSLQAVKESVSSSFVRKTTEKIGTLHTSP  
DLKVRPELRGDEQSCCEEDVSSDTCPKEEDTEEEKEVTSPPEEDRFQELKVATAEAMTKLQDPLVLFESSELRMV  
LQEWLSHLEKTFAMKDFSGVSDTDNSSMKLNQDVLLVNESKKGILDEDNEKEKRDSLGNESVDKTACECVRSPR  
ESLDDLFQICSPCAIASGLRNDLAELTTLCLELNVLSKIKSTSGHVDHTLQQYSPEILACQFLKKYFFLLNLKR  
AKESIKLSYSNSPSVWDTFIEGLKEMASSNPVYMEMEKGDLPTRLKLLDDEVFPDSPLLVVYATRLEYKFGESAL  
RSLIKFFPSILPSDIIQLCHHHPAEFLAYLDSL VKSRPEDQRSSFLESLLQPESLRLDWLLLAVSLDAPPSTSTM  
DDEGYPRPHSHLLSWGYSQILHLHLIKLPADFITKEKMTDICRSCGFWP GYLILCLELERRREAFTNIVYLN DMSL  
MEGDNGWIPETVEEWKLLLHLIQSKSTRPAPQESLNGSLSDGSP INVENVALLLAKAMGPDRAWSL LQECGLAL  
ELSEKFTRTCDILRIA EKRQRALIQSMLEKCDRFLWSQQA

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**FIGURE 905**

CTCCCTTTGGGCAAGGACCTGAGACCCTTGTGCTAAGTCAAGAGGCTCAATGGGCTGCAGAAGAACTAGAGAAGG  
ACCAAGCAAAGCC**ATG**ATATTTCCATGGAAATGTCAGAGCACCCAGAGGGACTTATGGAACATCTTCAAGTTGTG  
GGGGTGGACAATGCTCTGTTGTGATTTCTGGCACATCATGGAACCGACTGCTGGACTTACCATTATTCTGAAAA  
ACCCATGAACTGGCAAAGGGCTAGAAGATTCTGCCGAGACAATTACACAGATTTAGTTGCCATACAAAACAAGGC  
GGAAATTGAGTATCTGGAGAAGACTCTGCCTTTTCAGTCGTTCTTACTACTGGATAGGAATCCGGAAGATAGGAGG  
AATATGGACGTGGGTGGGAACCAACAAATCTCTTACTGAAGAAGCAGAGAAGCTGGGGAGATGGTGAGCCCAACAA  
CAAGAAGAACAAGGAGGACTGCGTGGAGATCTATATCAAGAGAAACAAAGATGCAGGCAAATGGAACGATGACGC  
CTGCCACAAACTAAAGGCAGCCCTCTGTTACACAGCTTCTTGCCAGCCCTGGTCATGCAGTGGCCATGGAGAATG  
TGTAGAAATCATCAATAATTACACCTGCAACTGTGATGTGGGGTACTATGGGCCCCAGTGTCAGTTTGTGATTCA  
GTGTGAGCCTTTGGAGGCCCCAGAGCTGGGTACCATGGACTGTACTCACCTTTGGGAAACTTCAGCTTCAGCTC  
ACAGTGTGCCTTCAGCTGCTCTGAAGGAACAACTTAAGTGGGATTGAAGAAACCACCTGTGGACCATTTGGAAA  
CTGGTCATCTCCAGAACCAACCTGTCAAGTGATTCAAGTGTGAGCCTCTATCAGCACCAGATTTGGGGATCATGAA  
CTGTAGCCATCCCTGGCCAGCTTCAGCTTTACCTCTGCATGTACCTTCATCTGCTCAGAAGGAAGTGAATGAAT  
TGGGAAGAAGAAAACCATTTGTGAATCATCTGGAATCTGGTCAAATCCTAGTCCAATATGTCAAAAATTGGACAA  
AAGTTTCTCAATGATTAAGGAGGGTGATTATAACCCCTCTTCATTCCAGTGGCAGTCATGGTTACTGCATTCTC  
TGGGTTGGCATTTATCATTTGGCTGGCAAGGAGATTAAAAAAGGCAAGAAATCCAAGAGAAGTATGAATGACCC  
ATAT**TAA**ATCGCCCTTGGTGAAAGAAAATTCTTGGAATACTAAAAATCATGAGATCCTTTAAATCCTTCCATGAA  
ACGTTTTGTGTGGTGGCACCTCCTACGTCAAACATGAAGTGTGTTTCCTTCAGTGCATCTGGGAAGATTTCTACC  
TGACCAACAGTTCCTTCAGCTTCCATTTGCCCCCTCATTTATCCCTCAACCCCAAGCCACAGGTGTTTATACAG  
CTCAGCTTTTTGTCTTTTCTGAGGAGAAACAAATAAGACCATAAAGGGAAAGGATTCATGTGGAATATAAAGATG  
GCTGACTTTGCTCTTTCTTGACTCTTGTTTTTCAGTTTCAATTCAGTGCTGTACTTGATGACAGACACTTCTAAAT  
GAAGTGCAAATTTGATACATATGTGAATATGGACTCAGTTTTCTTGCAGATCAAATTCACGTCGTCTTCTGTAT  
ACTGTGGAGGTACACTCTTATAGAAAGTTCAAAAAGTCTACGCTCTCCTTTCTTTCTAACTCCAGTGAAGTAATG  
GGGTCTGCTCAAGTTGAAAGAGTCCTATTTGCACTGTAGCCTCGCCGCTGTGGAATTGGACCATCCTATTTAAC  
TGGCTTCAGCCTCCCCACCTTCTTCAGCCACCTCTCTTTTTCAGTTGGCTGACTTCCACACCTAGCATCTCATGA  
GTGCCAAGCAAAAAGGAGAGAAGAGAGAAATAGCCTGCGCTGTTTTTTAGTTTGGGGGTTTTGCTGTTTTCTTTTA  
TGAGACCCATTCCCTATTTCTTATAGTCAATGTTTTCTTTTATCACGATATTATTAGTAAGAAAACATCACTGAAAT  
GCTAGCTGCAAGTGACATCTCTTTGATGTCATATGGAAGAGTTAAACAGGTGGAGAAATTCCTTGATTACAAAT  
GAAATGCTCTCCTTTCCCTGCCCCAGACCTTTTATCCACTTACCTAGATTCTACATATTCTTTAAATTTTCATC  
TCAGGCCTCCCTCAACCCACCACTTCTTTTATAACTAGTCCTTTACTAATCCAACCCATGATGAGCTCCTCTTC  
CTGGCTTCTTACTGAAAGGTTACCCTGTAACATGCAATTTTGCATTTGAATAAAGCCTGCTTTTTTAAGTGTTAA



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**FIGURE 906**

MIFPWKCQSTQRDNLWNIFKLWGWTMLCCDFLAHHGTDWCWYHYSEKPMNWQRARRFCRDNYTDLVAIQNKAEIEY  
LEKTLPFSSYYWIGIRKIGGIWTWVGTKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGKWDDACHKL  
KAALCYTASCQPWSCSGHGECVEIINNYTCNCDVGYYPQCQFVIQCEPLEAPELGTMDC THPLGNFSFSSQCAF  
SCSEGTNLTGIEETTTCGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK  
TICESSGIWSNPSPICQKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKKGKKSKRSMNDPY

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**FIGURE 907**

GAAAGTCAGTGAGCAAATCGCGGACCACCGGGGCTGCCAGCTCGCCTGACTCCCGGCCTCTTGCGCTCCTAGGGG  
CGGAGAAGGGTGCGGGCTCTTCGCCCTTTGTGTCCTCCTTCTTTCACTAACTTCTGGACTTCCAGCTCTTCCGA  
AGTTCGTTCTTGCGCAAAGCCCCAAAGGCTGGAAAACCGTCCACG**ATG**ACCAGCATGACTCAGTCTCTGCGGGAGG  
TGATAAAGGCCATGACCAAGGCTCGCAATTTTGAGAGAGTTTTGGGAAAGATTACTCTTGTCTCTGCTGCTCCTG  
GGAAAGTGATTTGTGAAATGAAAGTAGAAGAAGAGCATACCAATGCAATAGGCACTCTCCACGGCGGTTTGACAG  
CCACGTTAGTAGATAACATATCAACAATGGCTCTGCTATGCACGGAAAGGGGAGCACCCGGAGTCAGTGTCGATA  
TGAACATAACGTACATGTCACCTGCAAAATTAGGAGAAGATATAGTGATTACAGCACATGTTCTGAAGCAAGGAA  
AAACACTTGCAATTTACCTCTGTGGATCTGACCAACAAGGCCACAGGAAAATTAATAGCACAAAGGAAGACACAA  
AACACCTGGGAAAC**TGAG**AGAACAGCAGAATGACCTAAAGAAACCCAACAATGAATATCAAGTATAGATTTGACT  
CAAACAATTGTAATTTTGAATAAACTAGCAAAACCAGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 908**

MTSMTQSLREVIKAMTKARNFERVLGKITLVSAAPGKVICEMKVEEEHTNAIGTLHGGLTATLVDNISTMALLCT  
ERGAPGVSVDNMITYMSPAKLGEDIVITAHVLKQGKTLAFTSVDLTNKATGKLIAQGRHTKHLGN

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**FIGURE 909**

GAATTCGGTTTCTTCCTAAAAAATGTCTG**ATCG**CCGCTTTCTCGGTCGGCACCGCCATGAATGCCAGCAGTTAC  
TCTGCAGAGATGACGGAGCCCAAGTCGGTGTGTGTCTCGGTGGATGAGGTGGTGTCCAGCAACATGGAGGGCCACT  
GAGACGGACCTGCTGAATGGACATCTGAAAAAAGTAGATAATAACCTCACGGAAGCCCAGCGCTTCTCCTCCTTG  
CCTCGGAGGGCAGCTGTGAACATTGAATTCAGGGACCTTTCCTATTTCGGTTCCTGAAGGACCCCTGGTGGAGGAAG  
AAAGGATACAAGACCCCTCCTGAAAGGAATTTCCGGGAAGTTCAATAGTGGTGAGTTGGTGGCCATTATGGGTCCT  
TCCGGGGCCGGGAAGTCCACGCTGATGAACATCCTGGCTGGATACAGGGAGACGGGCATGAAGGGGGCCGTCCTC  
ATCAACGGCCTGCCCGGGACCTGCGCTGCTTCCGGAAGGTGTCTGCTACATCATGCAGGATGACATGCTGCTG  
CCGCATCTCACTGTGCAGGAGGCCATGATGGTGTCCGCACATCTGAAGCTTCAGGAGAAGGATGAAGGCAGAAGG  
GAAATGGTCAAGGAGATACTGACAGCGCTGGGCTTGCTGTCTTGCGCCAACACGCGGACCGGGAGCCTGTCAGGT  
GGTCAGCGCAAGCGCCTGGCCATCGCGCTGGAGCTGGTGAACAACCCCTCCAGTCATGTTCTTCGATGAGCCCACC  
AGCGGCCTGGACAGCGCCTCCTGCTTCCAGGTGGTCTCGCTGATGAAAGGGCTCGCTCAAGGGGGTCGCTCCATC  
ATTTGCACCATCCACCAGCCCAGCGCCAAACTCTTCGAGCTGTTTCGACCAGCTTTACGTCCTGAGTCAAGGACAA  
TGTGTGTACCGGGGAAAAGTCTGCAATCTTGTGCCATATTTGAGGGATTTGGGTCTGAAGTCCCCAACCTACCAC  
AACCAGCAGATTTTGTTCATGGAGGTTGCATCCGGCGAGTACGGTGATCAGAACAGTCGGCTGGTGAGAGCGGTT  
CGGGAGGGCATGTGTGACTCAGACCACAAGAGAGACCTCGGGGGTGATGCCGAGGTGAACCCCTTTCTTTGGCAC  
CGCCCTCTGAAGAGGTAAAGCAGACAAAACGATTAAAGGGGTTGAGAAAGGACTCCTCGTCCATGGAAGGCTGC  
CACAGCTTCTCTGCCAGCTGCCTCACGCAGTTCTGCATCCTCTTCAAGAGGACCTTCTCAGCATCATGAGGGAC  
TCGGTCTTGACACACCTGCGCATCACCTCGCACATTGGGATCGGCCTCCTCATTGGCCTGCTGTACTTGGGGATC  
GGGAACGAAACCAAGAAGGTCTTGAGCAACTCCGGCTTCTCTTCTTCTCCATGCTGTTCTCATGTTCTGCGGCC  
CTCATGCCTACTGTTCTGACATTTCCCCTGGAGATGGGAGTCTTTCTTCGGGAACACCTGAACTACTGGTACAGC  
CTGAAGGCCTACTACCTGGCCAAGACCATGGCAGACGTGCCCTTTCAGATCATGTTCCAGTGCCCTACTGCAGC  
ATCGTGTACTGGATGACGTGCGAGCCGTCCGACGCCGTGCGCTTTGTGCTGTTTGCCGCGCTGGGCACCATGACC  
TCCCTGGTGGCACAGTCCCTGGGCCTGCTGATCGGAGCCGCCCTCCACGTCCCTGCAGGTGGCCACTTTCGTGGGC  
CCAGTGACAGCCATCCCGGTGCTCCTGTTCTCGGGGTTCTTCGTGAGCTTCGACACCATCCCCACGTACCTACAG  
TGGATGTCTTACATCTCCTATGTCAGGTATGGGTTGGAAGGGTTCATCCTCTCCATCTATGGCTTAGACCGGGAA  
GATCTGCACTGTGACATCGACGAGACGTGCCACTTCCAGAAGTCGGAGGCCATCCTGCGGGAGCTGGACGTGGAA  
AATGCCAAGCTGTACCTGGACTTCATCGTACTCGGGATTTTCTTCACTCCCTCCGCCTCATTGCCTATTTGGTC  
CTCAGGTACAAAATCCGGGCAGAGAGG**TAAAA**CACCTGAATGCCAGGAAACAGGAAGATTAGACACTGTGGCCGA  
GGGCACGTCTAGAATCGAGGAGGCAAGCCTGTGCCCGACCGACGACACAGAGACTCTTCTGATCCAACCCCTAGA  
ACCGCGTTGGGTTTGTGGGTGTCTCGTGCTCAGCCACTCTGCCAGCTGGGTTGGATCTTCTCTCCATTCCCCTT  
TCTAGCTTTAACTAGGAAGATGTAGGCAGATTGGTGGTTTTTTTTTTTTTTTAAACATACAGAAATTTAAATACC  
ACAACCTGGGGCAGAATTTAAAGCTGCAACACAGCTGGTGATGAGAGGCTTCTCAGTCCAGTCGCTCCTTAGCAC  
CAGGCACCGTGGGTCTTGATGGGGAAGTCAAGCAGCCTCTCAGCTGATGGCTGCACAGTCAGATGTCTGGTGG  
CAGAGAGTCCGAGCATGGAGCGATTCCATTTTATGACTGTTGTTTTTACATTTTCATCTTTCTAAGGTGTGTCT  
CTTTTCCAATGAGAAGTCATTTTGAAGCCAAAAGTCGATCAATCGCATTCAATTTAAGAAATTATACCTTTT  
AGTACTTGCTGAAGAATGATTCAGGGTAAATCACATACTTTGTTTAGAGAGGCGAGGGGTTTAAACCGAGTCACC  
CAGCTGGTCTCATACATAGACAGCACTTGTGAAGGATTGAATGCAGGTTCCAGGTGGAGGGAAGACGTGGACACC  
ATCTCCACTGAGCCATGCAGACATTTTAAAGCTATACACAAAATTGTGAGAAGACATTGGCCAACCTTTTCAA  
AGTCTTTCTTTTCCACGTGCTTCTTATTTTAAAGCGAAATATATTGTTTGTTCCTAAAAAAAAAAAAAAAAA  
AAAAA

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**FIGURE 910**

MAAFSVGTAMNASSYSAEMTEPKSVCVSVDEVVSSNMEATETDLLNGHLKKVDNNLTEAQRFS SLPRAAVNIEF  
RDLSYSVPEGPWWRKKGYKTLLKGISGKFNSGELVAIMGPSGAGKSTLMNILAGYRETGMKGAVLINGLP RDLRC  
FRKVSCYIMQDDMLLPHLTVQEAMMVSAHLKLQEKDEGRREMVKEILTALGLLSCANTRTGSLSGGQ RKR LAIAL  
ELVNNPPVMFFDEPTSGLDSASC FQVVS LMKGLAQGGRSIICTIHQPSAKLFELFDQLYVLSQGQCVYRGKVCNL  
VPYLRDLGLNCP TYHNPAD FVMEVASGEYGDQNSRLVRVREGMCDSDHKRDLGGDAEVNPF LWHRPSEEVKQTK  
RLKGLRKDSSSMEGCHSFSASCLTQFCILFKRTFLS IMRDSVLTHLRITSHIGIGLLIGLLYLGIGNETKKVLSN  
SGFLFFSMLFLMFAALMPTVLT FPLEMGVFLREHLNYWYSLKAYYLAKTMADV PFQIMFPVAYCSIVYWMTSQPS  
DAVRFVLFAALGTMTSLVAQSLG LLIGAASTSLQVATFVG PVT AIPVLLFSGFFVSFD TIPTYLQWMSYISYVRY  
GFEGVILSIYGLDREDLHCDIDETCHFQKSEAILRELDVENAKLYLDFIVLG IFFISLR LIAYLVLRYKIRAER

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**FIGURE 911**

TCTGTGGCCGGAGGCTGATCAGTGTCTAGAACAGATCAGACATTTTGTAAATGATGCCTGAAATAAACACTAACC  
ACCTCGACAAGCAACAGGTTCAACTCCTGGCAGAGATGTGTATCCTTATTGATGAAAATGACAATAAAATTGGAG  
CTGAGACCAAGAAGAATTGTACCTGAACGAGAACATTGAGAAAGGATTATTGCATCGAGCTTTTAGTGTCTTCT  
TATTCAACACCGAAAATAAGCTTCTGCTACAGCAAAGATCAGATGCTAAGATTACCTTTCCAGGTTGTTTTACGA  
ATACGTGTTGTAGTCATCCATTAAAGCAATCCAGCCGAGCTTGAGGAAAGTGACGCCCTTGAGTGAGGCGAGCAG  
CACAGAGACGGCTGAAAGCTGAGCTAGGAATTCCTTGGAAGAGGTTCCCTCCAGAAGAAATTAATTATTTAACAC  
GAATTCACTACAAAGCTCAGTCTGATGGTATCTGGGGTGAACATGAAATTGATTACATTTTGTGGTGAGGAAGA  
ATGTAACTTTGAATCCAGATCCAATGAGATTAAAAGCTATTGTTATGTGTCAAAGGAAGAACTAAAAGAACTTC  
TGAAAAAAGCAGCCAGTGGTGAAATTAAGATAACGCCATGGTTTAAAATTATTGCAGCGACTTTTCTCTTTAAAT  
GGTGGGATAACTTAAATCATTTGAATCAGTTTGTGACCATGAGAAAATATACAGAATGTGAAATATGTAGGTAAA  
TGATTACAGAAAAATTTATGTGCTTAACAACTTAGAATGACTTTTTCTTTTAAATTTAGTTCTATCATTAATT  
TATCATTAATTTAGTTCTATCATTTGGTACTATCATTAATGTATTATAAACTTGTGTGGAAAAAACTAACTTA  
TAATTTTGTATCACACACCCTGGATATGTGTTCTGTTTCTAAGCGACATTTGTGAGAGATTATTGTAAATGAGA  
GCGAGAAATAAACTTAATTTAATCTTTGCAGATACATACTTATGGGAAATTTGAACAAATGAGTGAAACTCTGT  
TTTTAGTAGGCCGTGATAAACATTTCCGGAGCACTTGCAAGAGACTTGCTATTTGCCAGGTGCTTTATGTATCAT  
TAAATTTTCTCATAGTTCAGAAAAATGTGCAAAGGAACTATTGTCTCGCTCCTTCAAAACAGTCTTAATTAAC  
TTTCATATTAGCAGATTAACTAGCAGAGCAAGGTTCAAATTAAATGATATGACCCTAATTTGTATCATTCTGAG  
TTGATTGTGTGGTTTATTCATTCTGAAACATGTTGATACTTACAGTCACCGACTGCTTTTGATAAGTGATATTGA  
TTAGGTTGAATCTTCTTGTAATAGTATTTACCAGTTAGCAAAGTCTGTGTTTTCAGAATTACAGTGAGCACAGA  
GGTGTTCATAAAATGGGAATTGAGTCCCACTCGGTAAGAGTTGCTTAACTTGACACTGTTGACATTTGGGCTGG  
ATAAAACCCCTGTGGTGGGGTCTGTGCTGTGCATTGCAGGATGGTGAGCAGCGTCCCTCTCATGTGACACCCACA  
GTTATGCCGGATGTTGCCAGATGCCCTAGGGACAGAGTCAACCCCCAACTGAGGACCACTGTCTACAGAGTCAG  
GAAATATTGTAGGGAGAAAAAATAACAACAACAAAGGCCTATATTAATGTTAAATAGAGGAGATTATGGAATGT  
GTATATTAATGTTAAAAATTATTCCTTATTCAATGTATTTTATCAAATCGATAGATATCTCAGATTTGAAACTC  
AAGACAG

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**FIGURE 912**

MMPEINTNHLDKQQVQLLAEMCILIDENDNKIGAETKKNCHLNENIEKGLLHRAFSVFLFNTENKLLLQQRSDAK  
ITFPGCFTNTCCSHPLSNPAELEESDALGVRRAAQRRKAE LGIPLEVPPEEINYLTRIHYKAQSDGIWGEHEI  
DYILLVRKNVTLNPD PNEIKSYCYVSKEELKELLKKAASGEIKITPWFKIIAATFLFKWWDNLNHLNQFVDHEKI  
YRM

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**FIGURE 913**

TAATATAGGTACTTTGTCCCTGATTAAATTAATGTGACGGATAGAATGCATCAAGTGTTTATTATGAAAAGAGTGG  
AAAAGTATATAGCTTTTAGCAAAAGGTGTTTGCCCATCTAAGAAATGAGCGAATATATAGAAATAGTGTGGGCA  
TTTCTTCCTGTTAGGTGGAGTGTATGTGTTGACATTTCTCCCCATCTCTTCCCACTCTGTTTTCTCCCCATTATT  
TGAATAAAGTGACTGCTGAAGATGACTTTGAATCCTTATCCACTTAATTTAATGTTTAAAGAAAAACCTGTAATG  
GAAAGTGAGACTCCTTCCCTAATTTCAAGTTTAGAGCAACTTGAAGAAGAGTAGACAAAAAATAAAATGCACATAG  
AAAAAGAGAAAAAGGGCACAAAGGGATTGGCCCAATATTGATTCTTTTTTATAAAACCTCCTTTGGCTTAGAAGG  
AATGACTCTAGCTACAATAATACACAGTATGTTTAAGCAGGTTCCCTTGGTTGTTGCATTAAATGTAATCCACCT  
TTAGGTATTTTAGAGCACAGAACAACACTGTGTTGATCTAGTAGGTTTCTATTTTTCTTTCTCTTTACAATGCA  
CATAATACTTTCTGTATTTATATCATAACGTGTATAGTGTAATGTGAATGACTTTTTTTGTGAATGAAAATC  
TAAAATCTTTGTAACTTTTTATATCTGCTTTTGTTCACCAAAGAAACCTAAAATCCTTCTTTTACTACAAAAA  
AAAAAAAAGGGC



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**FIGURE 914**

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**FIGURE 915A**

GCTGCCCCGAGCCTTTCTGGGGAAGAACTCCAGGCGTGCGGACGCAACAGCCGAGAACATTAGGTGTTGTGGACA  
GGAGCTGGGACCAAGATCTTCGGCCAGCCCCGCATCCTCCCGCATCTTCCAGCACCGTCCCGCACCTCCGCATC  
CTTCCCCGGGCCACACGCTTCTATGTGACCCGCTGGGCAACGCCGAACCCAGTCGCGCAGCGCTGCAGTGAA  
TTTTCCCCCCTAACTGCAATAAGCCGCTTCCAAGGCCAAG**ATG**TTTCATAAAATATAAAGAGCATCTTATGGATGT  
GTTCAACCTTAATAGTAACCCATGCGCTACATAAAGTCAAAGTGGGAAAAAGCCCACCGGTGAGGGGCTCCCTCT  
CTGGAAAAGTCAGCCTACCTTGTCAATTTTCAACGATGCCTACTTTGCCACCCAGTTACAACACCAGTGAATTC  
TCCGCATCAAATGGTCTAAGATTGAAGTGGACAAAAATGGAAAAGATTTGAAAAGAGACTACTGTCCTTGTGGCCC  
AAAATGGAAATATCAAGATTGGTCAGGACTACAAAGGGAGAGTGTCTGTGCCCACACATCCCGAGGCTGTGGGCG  
ATGCCTCCCTCACTGTGGTCAAGCTGCTGGCAAGTGATGCGGGTCTTTACCGCTGTGACGTCATGTACGGGATTG  
AAGACACACAAGACACGGTGTCACTGACTGTGGATGGGGTTGTGTTTCACTACAGGGCGGCAACCAGCAGGTACA  
CACTGAATTTTGGAGCTGCTCAGAAGGCTTGTGTTGGACGTTGGGGCAGTCATAGCAACTCCAGAGCAGCTCTTG  
CTGCCTATGAAGATGGATTTGAGCAGTGTGACGCAGGCTGGCTGGCTGATCAGACTGTCAGATATCCCATCCGGG  
CTCCAGAGTAGGCTGTTATGGAGATAAGATGGGAAAGGCAGGAGTCAGGACTTATGGATTCCGTTCTCCCCAGG  
AACTTACGATGTGTATTGTTATGTGGATCATCTGGATGGTGTATGTGTTCCACCTCACTGTCCCCAGTAAATTCA  
CCTTCGAGGAGGCTGCAAAAGAGTGTGAAAACAGGATGCCAGGCTGGCAACAGTGGGGGAAGTCCAGGCGGCAT  
GGAGGAACGGCTTTGACCAGTGCATTACGGGTGGCTGTGCGATGCCAGCGTGCGCCACCCTGTGACTGTGGCCA  
GGGCCCAGTGTGGAGGTGGTCTACTTGGGGTGAGAACCCTGTATCGTTTGGAGAACAGACAGGCTTCCCTCCCC  
CTGATAGCAGATTTGATGCCTACTGCTTTAAACCTAAAGAGGCTACAACCATCGATTTGAGTATCCTCGCAGAAA  
CTGCATACCCAGTTTATCCAAAGAACCACAAATGTTTCTGTAGAACTACACCAATCATCCCTTTAGTTGATG  
AATTACCTGTCAATTCACAGAGTTCCTTCCCGTGGGAAATATTGTGAGTTTGAACAGAAAGCCACAGTCCAAC  
CTCAGGCTATCAGAGATAGTTTAGCCACCAAATTACCCACACCTACTGGCAGTACCAAGAAGCCCTGGGATATGG  
ATGACTACTCACCTTCTGCTTCAGGACCTCTTGAAAGCTAGACATATCAGAAATTAAGGAAGAAGTGCTCCAGA  
GTACAACCTGGCGTCTCTCATTATGCTACGGATTCTATGGGATGGTGTGCTGGAAGATAAACAAACACAAGAATCGG  
TTACACAGATTGAACAAAATAGAAGTGGGTCTTTGGTAACATCTATGGAAATCTTAAAGCACATTCTTCCAAGG  
AATTCCCTGTAACTGAAACACCATTGGTAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG  
GCACTGTTTCTGAATTGGTAACACAGGTCATATGGATTACCTTGGGAGAAGAGGATGATGAAGACAGAACAC  
TTACAGTTGGATCTGATGAGAGCACCTTGATCTTTGACCAAATTCCTGAAGTCATTACGGTGTCAAAGACTTCAG  
AAGACACCATCCACACTCATTTAGAAGACTTGGAGTCAGTCTCAGCATCCACAAGTGTTCCTTTAATTATGC  
CTGATAATAATGGATCATCCATGGATGACTGGGAAGAGAGACAAACTAGTGGTAGGATAACGGAAGAGTTTCTTG  
GCAAATATCTGTCTACTACACCTTTTCCATCACAGCATCGTACAGAAATAGAATTGTTTCTTATTCTGGTGATA  
AAATATTAGTAGAGGGAATTTCCACAGTTATTTATCCTTCTCTACAAACAGAAATGACACATAGAAGAGAAAGAA  
CAGAAACACTAATACCAGAGATGAGAACAGATACTTATACAGATGAAATACAAGAAGAGATCACTAAAAGTCCAT  
TTATGGGAAAAACAGAAGAAGTCTTCTCTGGGATGAACTCTCTACATCTCTCTCAGAGCCAATTCATGTTA  
CAGAGTCTTCTGTGGAAATGACCAAGTCTTTTGATTTCCCAACATTGATAACAAAGTTAAGTGCAGAGCCAACAG  
AAGTAAGAGATATGGAGGAAGACTTTACAGCAACTCCAGGTACTACAAAATATGATGAAAATATTACAACAGTGC  
TTTTGGCCCATGGTACTTTAAGTGTTGAAGCAGCCACTGTATCAAAATGGTTCATGGGATGAAGATAATACAACAT  
CCAAGCCTTTAGAGTCTACAGAACCTTCAGCCTCTTCAAAATGCCCCCTGCCTTACTCACAAGTGTGGGGATGA  
ATGGAAAGGATAAAGACATCCCAAGTTTCACTGAAGATGGAGCAGATGAATTTACTCTTATTCCAGATAGTACTC  
AAAAGCAGTTAGAGGAGGTTACTGATGAAGACATAGCAGCCCATGGAAAATTCACAATTAGATTTACGCCAACTA  
CATCAACTGGTATTGCAGAAAAGTCAACTTTGAGAGATTCTACAAGTGAAGAAAAAGTTCCACCTATCACAAGCA  
CTGAAGGCCAAGTTTATGCAACCATGGAAGGAAGTGCTTTGGGTGAAGTAGAAGATGTGGACCTCTCTAAGCCAG  
TATCTACTGTTCCCAATTTGCACACACTTCAGAGGTGGAAGGATTAGCATTTGTTAGTTATAGTAGCACCCAAG  
AGCCTACTACTTATGTAGACTCTTCCCATAACATTCTCTTTCTGTAATTCCTAAGACAGACTGGGGAGTGTTAG  
TACCTTCTGTTCCATCAGAAGATGAAGTTCTAGGTGAACCTCTCAAGACATACTTGTCTATTGATCAGACTCGCC  
TTGAAGCGACTATTTCTCCAGAACTATGAGAAACAACAAAATCACAGAGGGAACAACTCAGGAAGAATTCCTT  
GGAAAGAACAGACTGCAGAGAAACAGTTCTCTGCTCTCAGTTCTACAGCTTGACTCCCAAGGAGGCAGTAACAC  
CACTGGATGAACAAGAGGGCGATGGATCAGCATATACAGTCTCTGAAGATGAATTGTTGACAGGTTCTGAGAGGG  
TCCCAGTTTTAGAAACAAGTCCAGTTGGAAAAATTGATCACAGTGTGTCTTATCCACCAGGTGCTGTAAGTGAAG